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**FIGURE 654**

MAFARRLLRGPLSGPLLGRRGVCAGAMAPRRFVLELPDCTLAHFALGADAPGDADAPDPRLAALLGPPERSYSL  
CVPVTPDAGCGARVRAARLHQRLRHQLRRGPFQRCQLLRLLCYCPGGQAGGAQQGFLLRDPDDPDTRQALLELL  
GACQEAPRPHLGFEADPRGQLWQRLWEVQDGRRLQVGCAQVVPVPEPPLHPVVPDLPSSVVFPDREAARAVLEE  
CTSFIPPEARAVLDLVDQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSPPSCIGQWRKIFDDEPT  
IIRRAFYSLGNYIVASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPPAHHPVYQWPEDLLKPDILL  
TVSPEERLQRLQGRGMEKTREEAELEANSVFRQKVMSYQRMENPGCHVVDASPSREKVLQTVLSLIQNSFSEP

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**FIGURE 655**

GTGGTGGGACTCGCGTCGCGGCCGCGGAGACGTGAAGCTCTCGAGGCTCCTCCCGCTGCGGGTTCGGCGCTCGCCC  
TCGCTCTCCTCGCCCTCCGCCCCGGCCCCGGCCCCGCGCCCGCCATGGAGAAGACTGAGCTGATCCAGAAGGCCA  
AGCTGGCCGAGCAGGCCGAGCGCTACGACGACATGGCCACCTGCATGAAGGCAGTGACCGAGCAGGGCGCCGAGC  
TGTCCAACGAGGAGCGCAACCTGCTCTCCGTGGCCTACAAGAACGTGGTTCGGGGGCCGAGGTCCGCCTGGAGGG  
TCATCTCTAGCATCGAGCAGAAAGACCGACACCTCCGACAAGAAGTTGCAGCTGATTAAGGACTATCGGGAGAAAG  
TGGAGTCCGAGCTGAGATCCATCTGCACCACGGTGTGGAATTGTTGGATAAAATATTTAATAGCCAATGCAACTA  
ATCCAGAGAGTAAGGTCTTCTATCTGAAAATGAAGGGTGATTACTTCCGGTACCTTGCTGAAGTTGCGTGTGGTG  
ATGATCGAAAACAAACGATAGATAATTCCCAAGGAGCTTACCAAGAGGCATTTGATATAAGCAAGAAAGAGATGC  
AACCACACACCCAATCCGCCTGGGGCTTGCTCTTAACCTTTTCTGTATTTTACTATGAGATTCTTAATAACCCAG  
AGCTTGCTGACGCTGGCTAAAACGGCTTTTGATGAGGCCATTGCTGAACCTGATACACTGAATGAAGACTCAT  
ACAAAGACAGCACCTCATCATGCAGTTGCTTAGAGACAACCTAACACTTTGGACATCAGACAGTGCAGGAGAAG  
AATGTGATGCGGCAGAAGGGGCTGAAAACTAAATCCATACAGGGTGTCTATCCTTCTTTCCTTCAAGAAACCTTTT  
TACACATCTCCATTCTTATTCCACTTGGATTTCCTATAGCAAAGAAACCCATTCATGTGTATGGAATCAACTGT  
TTATAGTCTTTTACACTGCAGCTTTGGGAAAACCTTATTCTTGTATTGTTGTTGCTTGGCCTTCTCGGTGTG  
CAGTACTGCTGTAGAAAAGTATTAATAGCTTCATTTATATAAACATAAGTAACTCCCAAACACTTATGTAGAGG  
ACTAAAAATGTATCTGGTATTTAAGTAATCTGAACCAGTTCTGCAAGTGAAGTGTGTTTTGTATTACTGTGAAAT  
AAGAAAATGTAGTTAATTACAATTTAAAGAGTATTCCACATAACTTCTTAATTTCTACATTCCCTCCCTTACTCT  
TCGGGGGTTTTCTTTTCTAGTAAGCAACTTTTCCATGCTCTTAATGTATTCTTTTCTAGTAGGAATCCGGAAGTATT  
AGATTGAATGGAAAAGCACTTGCCATCTCTGTCTAGGGGTCACAAATTGAAATGGCTCCTGTATCACATACGGAG  
GTCTTGTGTATCTGTGGCAACAGGGAGTTTCTTATTCACTCTTTATTTGCTGCTGTTTAAGTTGCCAACCTCCC  
CTCCCAATAAAAAATTCACCTTACACCTCCTGCCTTTGTAGTTCTGGTATTCACTTTACTATGTGATAGAAGTAGCA  
TGTTGCTGCCAGAATACAAGCATTGCTTTTGGCAAATTAAAGTGCATGTCATTTCTTAATACACTAGAAAGGGGA  
AATAAATTAAAGTACACAAGTCCAAGTCTAAAACCTTTAGTACTTTTCCATGCAGATTTGTGCACATGTGAGAGGG  
TGTCCAGTTTGTCTAGTGATTGTTATTTAGAGAGTTGGACCACTATTGTGTGTTGCTAATCATTGACTGTAGTCC  
CAAAAAAGCCTTGTGAAAATGTTATGCCCTATGTAACAGCAGAGTAACATAAAAAATAAAGTACATTTTATAAACC  
ATTTACTATGGCTTTGTAAACAATTGCATACCCATATTTTAAAGGGACAGGTGAATTTACTACTTTCTAAAGTTTAT  
TGATACTTCCCTTTTATGTAATAATGTAGTAGTGATACCTATATTTCCACATTGTGCATTGTGACACACTTGTCTA  
GGGATGCCTGGAAGTGATAAAATTGGACTGCATTTCTTAGAGTGTTTTACTATAGATCAGTCTCATGGGCCATC  
TCTTCTCAGATGTAAATGATATCTGGTTAAGTGTTATATGGAATAAAGTGGACATTTTAAACTA

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**FIGURE 656**

MEKTELIQKAKLAEQAERYDDMATCMKAVTEQGAELSNEERNLLSVAYKNVVGGRSAWRVISSIEQKTDTSDDK  
LQLIKDYREKVESELRSICTTVLELLDKYLIANATNPESKVFYLMKGDYFRYLAEVACGDDRKQTDNSQGAYQ  
EAFDISKKEMQPTHP IRLGLALNFSVFYYEILNNPELACTLAKTAFDEAIAELDTLNEDSYKDSTLIMQLLRDNL  
TLWTSDSAGEECDAAE GAEN

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**FIGURE 657**

GGCACGAGGCTCCGGTGTGTCTGTTCGGTTGCAGTGTGGAGGTTCGGCGCCGGCCCCCGCCTTCCGCGCCCCCAC  
GGGAAGGAAGCACCCCCGGTATTAAACGAACGGGGCGGAAAGAAGCCCTCAGTCGCCGGCCGGGAGGCGAGCCG  
ATGCCGAGCTGCTCCACGTCCACCATGCCGGGCATGATCTGCAAGAACCAGACCTCGAGTTTACTCGCTACAG  
CCCTGCTTCTACCCGGACGAAGATGACTTCTACTTCGGCGGCCCGGACTCGACCCCCCGGGGAGGACATCTGG  
AAGAAGTTTGAGCTGCTGCCACGCCCCCGCTGTTCGCCAGCCGTGGCTTCGCGGAGCACAGCTCCGAGCCCCCG  
AGCTGGGTACGGAGATGCTGCTTGAGAACGAGCTGTGGGGCAGCCCCGGCCGAGGAGGACGCGTTCGGCCTGGGG  
GGACTGGGTGGCCTCACCCCCAACCCGGTCATCCTCCAGGACTGCATGTGGAGCGGCTTCTCCGCCCGCGAGAAG  
CTGGAGCGCGCCGTGAGCGAGAAGCTGCAGCACGGCCGCGGGCCGCCAACCGCCGGTTCCACCGCCAGTCCCCG  
GGAGCCGGCGCCGCCAGCCCTGCGGGTTCGCGGGCACGGCGGGGCTGCGGGAGCCGGCCGCGCCGGGGCCGCCCTG  
CCCCCGGAGCTCGCCACCCGGCCGCCGAGTGCCTGGATCCCCCGCTGGTCTTCCCCTTCCCGTGAACAAGCGC  
GAGCCAGCGCCCGTGCCTCGCAGCCCCGGCCAGTCCCCCGCGGGCGGGCCCTGCGGTTCGCTCGGGGGCGGGTATT  
GCCGCCCCAGCCGGGGCCCCGGGGTTCGCCCCCTCCGCGCCCAGGCGGGCCGCCAGACCAGCGGCGGCGACACAAG  
GCCCTCAGTACCTCCGGAGAGGACACCCTGAGCGATTGAGATGATGAAGATGATGAAGAGGAAGATGAAGAGGAA  
GAAATCGACGTGGTCACTGTGGAGAAGCGGCGTTTCTCCTCCAACACCAAGGCTGTCACCACATTCACCATCACT  
GTGCGTCCCAAGAAGCAGCCCTGGGTCCCGGGAGGGCTCAGTCCAGCGAGCTGATCCTCAAACGATGCCTTCCC  
ATCCACCAGCAGCACAACTATGCCGCCCCCTCTCCCTACGTGGAGAGTGAGGATGCACCCCCACAGAAGAAGATA  
AAGAGCGAGGCGTCCCCACGTCCGCTCAAGAGTGTATCCCCCAAAGGCTAAGAGCTTGAGCCCCGAAACTCT  
GACTCGGAGGACAGTGAGCGTCGCAGAAACCACAACATCCTGGAGCGCCAGCGCCGCAACGACCTTCGGTCCAGC  
TTTCTCACGCTCAGGGACCACGTGCCGGAGTTGGTAAAGAATGAGAAGGCCGCCAAGGTGGTCATTTTGAAAAAG  
GCCACTGAGTATGTCCACTCCCTCCAGGCCGAGGAGCACCAGCTTTTGCTGGAAGGAAAAATTGCAGGCAAGA  
CAGCAGCAGTTGCTAAAGAAAATTGAACACGCTCGGACTTGCTTAGACGCTTCTCAAACTGGACAGTCACTGCCA  
CTTTGCACATTTTGATTTTTTTTTTAAACAAACATTGTGTTGACATTAAGAATGTTGGTTTACTTTCAAATCGGT  
CCCCGTGTCGAGTTCGGCTCTGGGTGGGCAGTAGGACCACCAGTGTGGGGTTCTGCTGGGACCTTGGAGAGCCTGC  
ATCCAGGATGCTGGGTGGCCCTGCAGCCTCCTCCACCTCACCTCCATGACAGCGCTAAACGTTGGTGACGGTTG  
GGAGCCTCTGGGGCTGTTGAAGTCACCTTGTTGTGTTCCAAGTTTCCAAACAACAGAAAGTCATTCTTTCTTTTA  
AAATGGTGCTTAAGTTCCAGCAGATGCCACATAAGGGGTTTGCCATTTGATACCCCTGGGGAACATTTCTGTAAA  
TACCATTGACACATCCGCCTTTTGTATACATCCTGGGTAAATGAGAGGTGGCTTTTGCGGCCAGTATTAGACTGGA  
AGTTCATACCTAAGTACTGTAATAATACCTCAATGTTTGAGGAGCATGTTTGTATACAAATATATTGTTAATCT  
CTGTTATGTACTGTACTAATTCTTACACTGCCTGTATACTTTAGTATGACGCTGATACATAACTAAATTTGATAC  
TTATATTTTCGTATGAAAATGAGTTGTGAAAGTTTTGAGTAGATATTACTTTATCACTTTTGAACATAAGAACT  
TTTGTAAGAAATTTACTATATATATATGCCTTTTTCTAGCCTGTTTCTTCTGTTAATGTATTTGTTTCATGTT  
TGGTGCATAGAACTGGGTAAATGCAAAGTTCTGTGTTAATTTCTTCAAATGTATATATTTAGTGCTGCATCTT  
ATAGCACTTTGAAATACCTCATGTTTATGAAAATAAATAGCTTAAATTAATAAAAAAAAAAAAAAAAAA



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**FIGURE 658**

MPSCSTSTMPGMICKNPDLFDSLQPCFYPEDDDFYFGGPDSTPPGEDIWKKFELLPTPPLSPSRGFAEHSSEPP  
SWVTEMLLENELWGSPEEDAFGLGGLGLTPNPVILQDCMWSGFSAREKLERAVSEKLQHGRGPPTAGSTAQSP  
GAGAASPAGRGHGAAGAGRAGAALPAELAHPAAECDVPAVVFPFVNKREPAPVPAAPASAPAAGPAVASGAGI  
AAPAGAPGVAPPRPGGRQTSGGDHKALSTSGEDTSDSDDDEDEEEDEEEEIDVVTVEKRSSSNTKAVTTFTIT  
VRPKNAALGPGRAQSSSELILKRCLPIHQHNYAAPSPYVESEDAPPQKKIKSEASPRPLKSVIPPKAKSLSPRNS  
DSEDSERRRNHNILERQRRNDLRSSFLTIRDHVPELVKNEKAAKVILKKATEYVHSLQAEHQLLLEKEKLQAR  
QQQLLKKIEHARTC

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**FIGURE 659**

GTCAGTCCCTCCTGTAGCCGCCGCCGCCGCCGCCGCCGCCGCCCTCTGCCAGCAGCTCCGGCGCCACCTCGGGCCG  
GCGTCTCCGGCGGGCGGGAGCCAGGCGCTGACGGGCGCGGGGGCGGCCGAGCGCTCCTGCGGCTGCGACTCA  
GGCTCCGGCGTCTGCGCTTCCCCATGGGGCTGGCCTGCGGCGCCTGGGCGCTCTGAGATTGTCACTGCTGTTCCA  
AGGGCACACGCAGAGGGATTGGAATTCCTGGAGAGTTGCCTTTGTGAGAAGCTGGAAATATTTCTTTCAATTCC  
ATCTCTTAGTTTTCCATAGGAACATCAAGAAATCATGAACAACCTTTGGTAATGAAGAGTTTGAAGTCCCT  
CGATGAAGGTTTTACTGCCAAGGACATTCTGGACCAGAAAATTAATGAAGTTTCTTCTTCTGATGATAAGGATGC  
CTTCTATGTGGCAGACCTGGGAGACATTCTAAAGAAACATCTGAGGTGGTTAAAAGCTCTCCCTCGTGTCAACCC  
CTTTTATGCAGTCAAATGTAATGATAGCAAAGCCATCGTGAAGACCCCTTGCTGCTACCGGGACAGGATTTGACTG  
TGCTAGCAAGACTGAAATACAGTTGGTGCAGAGTCTGGGGGTGCCCTCCAGAGAGGATTATCTATGCAAATCCTTG  
TAAACAAGTATCTCAAATTAAGTATGCTGCTAATAATGGAGTCCAGATGATGACTTTTGATAGTGAAGTTGAGTT  
GATGAAAGTTGCCAGAGCACATCCCAAAGCAAAGTTGGTTTTGCGGATTGCCACTGATGATTCCAAAGCAGTCTG  
TCGTCTCAGTGTGAAATTCGGTGCCACGCTCAGAACCAGCAGGCTCCTTTTGGAACGGGCGAAAGAGCTAAATAT  
CGATGTTGTTGGTGTGAGCTTCCATGTAGGAAGCGGCTGTACCGATCCTGAGACCTTCGTGCAGGCAATCTCTGA  
TGCCCGCTGTGTTTTTGACATGGGGGCTGAGGTTGGTTTTGACATGTATCTGCTTGATATTGGCGGTGGCTTTCC  
TGGATCTGAGGATGTGAACTTAAATTTGAAGAGATCACCGGCGTAATCAACCCAGCGTTGGACAAATACTTTCC  
GTCAGACTCTGGAGTGAGAATCATAGCTGAGCCCGGCAGATACTATGTTGCATCAGCTTTCACGCTTGCAAGTAA  
TATCATTGCCAAGAAAATTGTATTAAAGGAACAGACGGGCTCTGATGACGAAGATGAGTCGAGTGAGCAGACCTT  
TATGTATTATGTGAATGATGGCGTCTATGGATCATTTAATTGCATACTCTATGACCACGCACATGTAAAGCCCTT  
TCTGCAAAAGAGACCTAAACCAGATGAGAAGTATTATTCATCCAGCATATGGGGACCAACATGTGATGGCCTCGA  
TCGGATTGTTGAGCGCTGTGACCTGCCTGAAATGCATGTGGGTGATTGGATGCTCTTTGAAAACATGGGCGCTTA  
CACTGTTGCTGCTGCCTCTACGTTCAATGGCTTCCAGAGGCCGACGATCTACTATGTGATGTCAGGGCCTGCGTG  
GCAACTCATGCAGCAATTCCAGAACCCGACTTCCACCCGAAGTAGAGGAACAGGATGCCAGCACCTGCCTGT  
GTCTTGCTGCTGGGAGAGTGGGATGAAACGCCACAGAGCAGCCTGTGCTTCGGCTAGTATTAATGTGTAGATAGC  
ACTCTGGTAGCTGTAACTGCAAGTTTAGCTTGAATTAAGGGATTGGGGGGACCATGTAACCTTAATTACTGCTA  
GTTTTGAAATGTCTTTGTAAGAGTAGGGTCGCCATGATGCAGCCATATGGAAGACTAGGATATGGGTACACTTA  
TCTGTGTTCCATGGAACCTATTTGAATATTTGTTTTATATGGATTTTATTCACTCTTCAGACACGCTACTCAA  
GAGTGCCCCCTCAGCTGCTGAACAAGCATTTGTAGCTTGTACAATGGCAGAATGGGCCAAAAGCTTAGTGTTGTGA  
CCTGTTTTTAAATAAAGTATCTTGAAATAATTAGGC

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**FIGURE 660**

MNNFGNEEFDC HFLDEGFTAKDILDQKINEVSSSSDDKDAFYVADLGDILKKHLRWL KALPRVTFPFYAVKCND SKA  
IVKTLAATGTGFDCASKTEIQLVQSLGVPPERIIYANPCKQVSQIKYAAANNGVQMMTFDSEVELMKVARAHPKAK  
LVLRIATDDSKAVCRLSVKFGATLRTSRLLLERAKELNIDVVGVSFHVSGCTDPETFVQAISDARCVFDMGAEV  
GFSMYLLDIGGGFP GSEDVKLKFEIITGVINPALDKYFPSDSGVRIIAEPGRYYVASAFTLAVNIIAKKIVLKEQ  
TGSDDDEDESSEQTFMYVNDGVYGSFNCILYDHAHVKPLLQKRKPDEKYYSSSIWGPTCDGLDRIVERCDLPEM  
HVGDWMLFENMGAYTVAAASTFNGFQRPTIYYVMSGPAWQLMQQFQNPDPFPEVEEQDASTLPVSCAWESGMKRH  
RAACASASINV

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**FIGURE 661**

ATGAGTCAGCAGCGGCCGCGAGGAAGTTACCCAGTCTCCTCCTGGACCCGACGGAGGAGACGGTTCGCCGTCGG  
TGCCGAGACCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAATAAGGATTAATTTAGAAGATAATGTACAATAT  
GTGTCCATGAGAAAAGCTCTAAAAGTGAAGAGACCTCGTTTTGATGTATCGCTGGTTTATTTAACTCGAAAATTT  
ATGGATCTTGTGATCTGCTCCCGGGGGTATTCTTGACTTAAACAAGGTTGCAACGAAACTGGGAGTCCGAAAG  
CGGAGAGTGTATGACATCACCAATGTCTTAGATGGAATCGACCTCGTTGAAAAGAAATCCAAGAACCATATTAGA  
TGGATAGGATCTGATCTTAGCAATTTTGGAGCAGTTCCCAACAAAAGAAGCTACAGGAGGAACTTTCTGACTTA  
TCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTTTGAGTTAACAGATGACAAA  
GAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTCATAGCATTTCAGGCCTTCCATGAACAGATCGTCATT  
GCAGTTAAAGCTCCAGCAGAAACCAGATTGGATGTTCCAGCTCCCAGAGAAGACTCTATCACAGTGCACATAAGG  
AGCACCAACGGACCTATCGATGTCTATTTGTGTGAAGTGGAGCAGGGTCAGACCAGTAACAAAAGGTCTGAAGGT  
GTCGGGACCTCTTCATCTGAGAGCACTCATCCAGAAGGCCCTGAGGAAGAAGAAAATCCTCAGCAAAAGTGAAGAA  
TTGCTTGAAGTAAGCAACTGATGGCATTGAGAAATTTATGTATCACTGAGTTTTTTGGGAATATCTTCGTGGAGA  
ATTACGCATCAAATTTGATTCTCAGAGCAATAAATTATCCATGAAGTGCTCTCGTTCTCAGTAGCGGCATCATGG  
CCAGTAGTGTCTTTGAGGAGTTACCACTTAGATTACTGAGTAATTGTGGTTTCCACATTTGAAAACAACCTCCTT  
TTATAATTATTCAGTGCTTTTTGTGAGTGAATAGACATCTTGCCTCCTGAAGTAGCTTCATCACAGAGTGTCTAT  
GAAGACAGACAGTCAGGCTGAAATGGACAGTTCTTTGTGGACTCTACCCTTCCCTTCAAGGAGTATGTCATATAT  
CACAAAAGAAATTGCCTTACACTGGTTTCATGTTTGCAGTTACTGTTGTACATTGCATAGATGTACACACGAATTT  
AAATGTGATGTCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGTCTGAGTGACACTTTTCACC  
CTTGTACAGCCAAAATAATGTATATATGGAAGTGACAGACAAATTCCTAATCTCTTTGGTACCTATAACTTAT  
TAGAATCCTCTGGATGAGGGTTAGAAGAGACTTTTTCCAAACTTCTACATGTAGAAGTATCATAAATGTGCTACA  
CATTTATGTTTGTGGATTTAATTAAAGTATTTTAATATGGTTTTTCAGTGCTAAAATTGGAGTCAGATACTTCTTG  
GTTTTAAGCTGTCTACCTAATTGCTGTCTCCAGCAGACTGGTGGCATGCCAGTGGCTTTGGGGGCAAGGATAG  
AAATGCCATCAGGAAATAGCTGAATTCATTGTGAAACATGAATTCAGTCATGGTGATAATTGGAAACTCCTTTCA  
GGTTTTTGCAAGTAGATTTTGTAAATGTTTGTGTATGCAGCCTTGCTGTTGAGTCAGTCCAAGGGGTTTTACTTAG  
GACAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCACATTTTCACATACCTAGCTGTTTCTACCTCATTGGG  
TAAGTCATTTACCACTCTGTGCCTCAGTTTACTCTGTAGTTTACCATTAGACTGTGAGCTCCTTGAGGGACTTTG  
TCATAATCACTGTTACATCCCAGTGCCTCACACCATGCCTGGCCCTTAAGAAGTGCTCAATAAATGTCTGAACAA  
ATAA

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**FIGURE 662**

CTCTGTAGCTGTGACCCCTGATACCGCTGGTGTGCTCCGAACACATGGTGCCCGAGAACGAAGGCGGCGTCCAGAA  
GCCCTAGGTCCCAGAGGTCCGCTCAGCGGCAGGCGCATAAGGCGGGGCCGCGCGGGCCTTTCTTCCATCGGAA  
CCGTTTCTCCCGGGGCTGAGTCCCTGCCCGGACTCCGAACGCCGAAGACCAGGGGCCGGAAGCGCGCGCCGCGGACT  
GCCACGCCGTGTGAGTCGGGAGGGAGGGAGCGAGCAGGCGAAGCCGCGGAGGACGGGGTGAAGATGCGGGCCTTC  
TCCGAGATGGGTGTAATGCCTGAGATTGCACAAGCTGTGGAAGAGATGGATTGGCTCCTCCCAACTGATATCCAG  
GCTGAATCTATCCCATTGATCTTAGGAGGAGGTGATGTACTTATGGCTGCAGAAACAGGAAGTGGCAAAACTGGT  
GCTTTTAGTATTCCAGTTATCCAGATAGTTTATGAAACTCTGAAAGACCAACAGGAAGGCAAAAAAGGAAAAACA  
ACAATTAAACTGGTGCTTCAGTGCTGAACAAATGGCAGATGAACCCATATGACAGAGGATCTGCTTTTGCAATT  
GGGTGAGATGGTCTTTGTTGTCAAAGCAGAGAAGTAAAGGAATGGCATGGGTGTAGAGCTACTAAAGGATTAATG  
AAAGGGAAACACTACTATGAAGTATCCTGTGATGACCAAGGGTTATGCAGGGTCGGGTGGTCTACCATGCAGGCC  
TCTTTGGACCTAGGTACTGACAAGTTTGGATTTGGCTTTGGTGGAAACAGGAAAGAAATCCCATAAACAAACAATTT  
GATAATTATGGAGAGGAATTCATGATGATACCATTTGGATGTTACCTGGATATAGATAAGGGACATGTCAAG  
TTCTCCAAAATGGAAAAGATCTTGGTCTGGCATTGAAATACCACCACATATGAAAACCAAGCCCTCTTTCTCT  
GCCTGTGTTTTGAAGAATGCTGAACTGAAATTTAACTTCGGTGAAGAGGAATTTAAGTTTCCACCAAAAGATGGC  
TTTGTGCTCTTTCCAAGGCACCGGATGGTTACATTGTCAAATCACAGCACTCAGGTAATGCACAGGTGACACAA  
ACAAAGTTTCTCCCAATGCTCCGAAAGCTCTCATTGTTGAACCTTCCCGGGAGTTAGCTGAACAACTTTGAAC  
AACATCAAGCAGTTTAAGAAATACATTGATAATCCTAAATTAAGGGAGCTTCTGATAATTGGAGGTGTTGCAGCC  
CGGGATCAGCTCTCTGTTTTGGAAAATGGAGTAGATATAGTTGTAGGTACTCCGGGAAGACTAGATGACTTGGTG  
TCAACTGGAAAGCTGAACTTATCTCAAGTTAGATTCTGCTGGTCTGGATGAAGCTGATGGGCTTCTTTCTCAAGGT  
TATTCTGATTTTATAAATAGGATGCACAATCAGATTCTCAGGTTACCTCTGATGGAAAAGACTTCAGGTGATT  
GTTTGCTCTGCCACTTTGCATTCTTTGATGTAAAGAACTGTCCGAGAAGATAATGCATTTTCTACATGGGTT  
GACTTAAAAGGAGAAGACTCTGTTCCAGATACTGTACACCATGTTGTTGTCCAGTAAATCCCAAACTGACAGA  
CTCTGGGAAAGGCTTGAAAAGAGCCACATTAGAAGTATGATGTACATGCAAAAGATAACACAAGACCTGGTGCT  
AATAGTCCAGAGATGTGGTCTGAAGCTATTAAATCCTGAAAGGGGAGTATGCTGTCCGGGCAATCAAGGAACAT  
AAGATGGATCAAGCAATTATCTTCTGTAGAACCAAAATTGACTGTGATAACTTGGAGCAGTACTTTATACAACAA  
GGAGGAGGACCTGATAAAAAAGGACACCAGTTCTCATGTGTTTGTCTTCATGGTGACAGAAAGCCTCATGAGAGA  
AAGCAAACTTGGAAAGATTTAAGAAAGGAGATGTAAGATTCTTGATTGACAGATGTAGCTGCTAGAGGAATT  
GATATCCACGGTGTTTCTTATGTTATAAATGTCACTCTGCCGATGAAAAGCAAACTACGTACATCGAATTGGC  
AGAGTAGGAAGAGCTGAAAGGATGGGTCTGGCAATTTCCCTGGTGGCAACAGAAAAAGAAAGGTTTGGTACCAT  
GTATGTAGCAGCCGTGAAAAGGGTGTATAACACAAGACTCAAGGAAGATGGAGGCTGTACCATATGGTACAAC  
GAGATGCAGTTACTATCTGAGATAGAAGAACACCTGAACTGTACCATTTCTCAGGTTGAGCCGGATATAAAGGTA  
CCAGTGGATGAATTTGATGGGAAAGTTACCTACGGTCAGAAAAGGGCTGCTGGTGGTGGAAAGCTATAAAGGCCAT  
GTGGATATTTTGGCACCTACTGTTCAAGAGTTGGCTGCCCTTGAAAAGGAGGCGCAGACATCTTTCTGCATCTT  
GGCTACCTTCCTAACAGCTGTTTCAAGACCTTCTGATTTTTTACATTTACTGAATAAGATTTGAGTAATGAAAGTC  
TGTAAGTCTTAAACTCTAAACAGTTGTACTGCTTCCAAGCAGCAGTATTTATAGTAACGTAAGCTATTAATGCT  
AACTCTTGATGTCAAGAAACATTAGTCTTAGGAATTCTTCAAAAAATGGCATCCCAATGAAAATAAATTTGATG  
ACTATA

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**FIGURE 663**

MAAFSEMGVMEIAQAVEEMDWLLPTDIAESIPLILGGGDVLMAAETGSGKTGAFSIPVVIQIVYETLKDQQEGK  
KGKTTIKTGASVLNKWQMNPDYDRGSAFAIGSDGLCCQSREVKWHGCRATKGLMKGKHYYEVSCHDQGLCRVGWS  
TMQASLDLGTDKFGFGGTGKKSHNKQFDNYGEEFTMHDTIGCYLDIDKGHVKFSKNGKDLGLAFEIPPHMKNQ  
ALFPACVLKNAELKFNFGEFEFKFPPKDGVALSKAPDGYIVKSQHSNAQVTQTKFLPNAPKALIVEPSRELAE  
QTLNNIKQFKKYIDNPKLRELLIIGGVAARDQLSVLENGVDIVVGTPGRLDDLSTGKLNLSQVRFLVLDEADGL  
LSQGYSDFINRMHNQIPQVTS DGKRLQVIVCSATLHSFDVKKLSEKIMHFPTWVDLKGEDSVPDTVHHVVVPVNP  
KTDRLWERLGKSHIRTD DVHAKDNTRPGÅNSPEMWSEAIKILKGEYAVRAIKEHKMDQAIIFCRTKIDCDNLEQY  
FIQQGGGPDKKGHQFSCVCLHGDRKPKHERKQNLERFKKGDVRFICTDVAARGIDIHGVPYVINVTLPDEKQNYV  
HRIGRVGRAERMGLAISLVATEKEKVWYHVCSSRGKGCYNTRLKEDGGCTIWINEMQLLSEIEEHLNCTISQVEP  
DIKVPVDEFDGVKTYGQKRAAGGSYKGHVDILAPTVQELAALEKEAQTSLHLGYLPNQLFRTE

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**FIGURE 664A**

GAACATGGCGGCCCCGAGTCAGGGCCGGCTTTGAGTCCAGGCACTGCAGAGGCCTAGAGGCAACCAAAACATG  
GTGCATCCTTTATCATCACGAAAGCAATTCGAGATCGTTTATTATTTTTACGCCAATACATCTGGTACAGCCCGG  
CACCTTTTTTGCTCCCTGATGGACTGGTTCGCTTGGTTAATAAACAGATAAACTGGCATTGTTGCTACTGCAAGCA  
ATAGCACTAGAGTGCATCTATACCTGTGAACGAAATGATCAACTCTGTCTTTGCTATGACCTACTAGAATGTCTG  
CCAGAAAGAGGATATGGTGATAAGACAGAGGCAACCACAAAGCTTCATGACATGGTAGACCAACTGGAACAAATT  
CTCAGTGTGTGAGAGCTTTTGAAAAACATGGACTCGAGAAACCAATTTTCATTTGTTAAAAACACTCAATCTAGC  
TCAGAAGAGGCACGCAAGCTGATGGTTAGATTGACGAGGCACACTGGCCGGAAGCAGCCTCCTGTGCTGAGTCT  
CATTGGAGAACGTTGCTGCAAGACATGTTAACTATGCAGCAGAATGTATACACATGTCTAGATTCTGATGCCTGC  
TATGAGATATTTACAGAAAGCCTTCTGTGCTCTAGTCGCCTTGAAAACATCCACCTGGCTGGACAGATGATGCAC  
TGCAGTGTCTTGTTCAGAAAATCCTCCAGCTGGTATAGCCCATAAAGGGAAACCCCACTACAGGGTCAGCTACGAA  
AAGAGTATTGACTTGGTTTTGGCTGCCAGCAGAGAGTACTTCAATTCTTCTACCAACCTCACTGATAGCTGCATG  
GATCTAGCCAGGTGCTGCTTACAACTGATAACAGACAGACCCCTGCCATTCAAGAGGAGCTAGATCTTATCCAA  
GCCGTTGGATGTCTTGAAGAATTTGGGGTAAAGATCCTGCCTTTGCAAGTGCGATTGTGCCCTGATCGGATCAGT  
CTCATCAAGGAGTGTATTTCCAGTCCCCCACATGCTATAACAATCCACCAAGCTTCTGGGCCCTGTGAGCTG  
CTGAGGGTTGCAGGTGAGAACCCAGAAGAAAGGCGGGGACAGGTTCTAATCCTTTTAGTGAGCAGGCACCTTCGC  
TTCCATGACTACAAAGCAGCCAGTATGCATTGTGAGGAGCTGATGGCCACAGGTTATCCTAAAAGTTGGGATGTT  
TGTAGCCAGTTAGGACAATCAGAAGGTTACCAGGACTTGGCCACTCGTCAAGAGCTCATGGCTTTTGCTTTGACA  
CATTGCCCTCCTAGCAGCATTGAACTTCTTTTGGCAGCTAGCAGCTCTCTGCAGACAGAAATCTTTATCAAAGA  
GTGAATTTCCAGATCCATCATGAAGGAGGGGAAAATATCAGTGCTTACCATTAACTAGTAAAGCAGTACAAGAG  
GATGAAGTAGGTGTTCCAGGTAGCAATTCAGCTGACCTATTGCGCTGGACCACTGCTACCACCATGAAAGTCCTT  
TCCAACACCACAACCACCACCAAAAGCGGTGCTGCAGGCCGTCAGTGATGGGCAGTGGTGGAAGAAGTCTTTAACT  
TACCTTCGACCCCTTCAGGGGCAAAAATGTGGTGGTGCATATCAAATCGGAACTACAGCCAATGAAGATCTAGAG  
AAACAAGGGTGTATCCTTTTTATGAATCTGTCATCTCAAATCCTTTTGTGCTGAGTCTGAAGGGACCTATGAC  
ACCTATCAGCATGTTCCAGTGGAAGCTTTGTCAGAAGTATTGCTGAGAACTGGAAAATTGGCAGAGGCTAAAAAT  
AAAGGAGAAGTATTTCCAACAACCTGAAGTTCTCTTGCAACTAGCAAGTGAAGCCTTGCCAAATGACATGACCTTG  
GCTCTTGCTTACCTTCTTGCTTACCACAAGTGTTAGATGCTAACCGGTGCTTTGAAAAGCAGTCCCCCTCTGCA  
TTATCTCTCCAGCTGGCAGCGTATTACTATAGCCTCCAGATCTATGCCCGATTGGCCCCATGTTTCAGGGACAAG  
TGCCATCCTCTTTACAGGGCTGATCCCAAGAACTAATCAAGATGGTCACCAGGCATGTGACTCGACATGAGCAC  
GAAGCCTGGCCTGAAGACCTTATTTCACTGACCAAGCAGTTACACTGCTACAATGAACGTCTCCTGGATTTCACT  
CAGGCGCAGATCCTTCAGGGCCTTCGGAAGGGTGTGGACGTGCAGCGGTTTACTGCAGATGACCAGTATAAAAGG  
GAACTATCCTTGGTCTGGCAGAACTCTAGAGGAAAGCGTCTACAGCATTGCTATTTCTCTGGCACAACGTTAC  
AGTGTCTCCCGCTGGGAAGTTTTTATGACCCATTTGGAGTTCTCTTACGGACAGTGGTTTGTCCACACTAGAA  
ATTGAAAATAGAGCCCAAGACCTTCATCTCTTTGAGACTTTGAAGACTGATCCAGAAGCCTTTCACCAGCACATG  
GTCAAGTATATTTACCCTACTATTGGTGGCTTTGATCACGAAAGGCTGCAGTATTATTTCACTCTTCTGGAAAAC  
TGTGGCTGTGAGATTGTTGGGAACTGTGCCATTAAACCAGAAACCCACATTGACTGCTGAAGAAGTTTAAGGTT  
GTTGCATCAGGTCTTAATTACAAAAAGCTGACAGATGAAAACATGAGTCCTCTTGAAGCATTGGAGCCAGTTCTT  
TCAAGTCAAAATATCTTGTCTATTTCCAAACTTGTTCCTCCAAAATCCCTGAAAAGGATGGACAGATGCTTTCCCCA  
AGCTCTCTGTACACCATCTGGTTACAGAAGTTGTTCTGGACTGGAGACCCTCATCTCATTAAACAAGTCCCAGGC  
TCTTACCAGGAGTGGCTTCATGCCTATGATGTCTGCATGAAGTACTTTGATCGTCTCCACCCAGGTGACCTCATC  
ACTGTGGTAGATGCAGTTACATTTTCTCCAAAAGCTGTGACCAAGCTGTCTGTGGAAGCCCGTAAAGAGATGACT  
AGAAAGGCTATTAAGACAGTCAAACATTTTATTGAGAAGCCAAGGAAAAGAACTCAGAAGACGAAGCTCAAGAA  
GCTAAGGATTCTAAAGTTACCTATGCAGATACTTTGAATCATCTGGAGAAATCACTTGCCACCTGGAAAACCTG  
AGCCACAGCTTCATCCTTTCTCTGAAGAATAGTGAGCAGGAAACACTGCAAAAATACAGTCACCTCTATGATCTG  
TCCCGATCAGAAAAAGAGAACTTCATGATGAAGCTGTGGCTATTTGTTTAGATGGTCAGCCTCTAGCAATGATT  
CAGCAGCTGCTAGAGGTGGCAGTTGGCCCTCTTGACATCTCACCCAAGGATATAGTGACAGAGTGCAATCATGAAA  
ATAATTTCTGCATTGAGTGGTGGCAGTGTGACCTTGGTGGGCCAAGGGACCCACTGAAGGTCTGGAAGGTGTT  
GTTGCAGCAGTCCACGCCAGTGTGGACAAGGGTGAGGAGCTGGTTTCACCTGAGGACCTGCTGGAGTGGCTGCGG  
CCTTCTGTGCTGATGACGCTGGCCGGTGGCGCCCCGCATTCACGTGCTGCAGATTTTGGGGCAATCATTTTAC

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**FIGURE 664B**

CTGACTGAGGAGGACAGCAAGCTCCTCGTGTTCTTTAGAAGTGAAGCCATTCTCAAAGCCTCCTGGCCCCAGAGA  
CAGGTAGACATAGCTGACATTGAGAAATGAAGAGAACCGCTACTGTCTATTCATGGAACCTCCTGGAATCTAGTCAC  
CACGAGGCTGAATTTACGCACTTGGTTTTACTTTTGCAAGCTTGGCCACCTATGAAAAGTGAATATGTCATAACC  
AATAATCCATGGGTGAGACTAGCTACAGTGATGCTAACCAGATGTACGATGGAGAACAAAGGAAGGATTGGGGAAT  
GAAGTTTTGAAAATGTGTCGCTCTTTGTATAACACCAAGCAGATGCTGCCTGCAGAGGGTGTGAAGGAGCTGTGT  
CTGCTGCTGCTTAACCAGTCCCTCCTGCTTCCATCTCTGAACTTCTCCTCGAGAGCCGAGATGAGCATCTGCAC  
GAGATGGCACTGGAGCAAATCACGGCAGTCACTACGGTGAATGATTCCAATTGTGACCAAGAACTTCTTTCCCTG  
CTCCTGGATGCCAAGCTGCTGGTGAAGTGTGTCTCCACTCCCTTCTATCCACGTATTGTTGACCACCTCTTGGCT  
AGCCTCCAGCAAGGGCCTGCGGATGCAGAGGAGCTGGGCAGACACCTGCGGGAGGCCGCGCCATGAAGCCGAAGCC  
GGGTCTCTCCTTCTGGCCGTGAGGGGGACTCACCAGGCCTTCAGAACCTTCAGTACAGCCCTCCGCGCAGCACAG  
CACTGGGTGTGAGGGCCACCTGTGGCCCTGCTCCTTAGCAGAAAAAGCATCTGGAGTTGAATGCTGTTCCCAGAA  
GCAACATGTGTATCTGCCGATTGTTCTCCATGGTTCCAACAAATTGCAAATAAACTGTATGGAAACG



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**FIGURE 665**

ATGGAGATCTCGGCTGCGAAGTGTGTCATCAGCATCTGGCTTTCTGGGTTATGATGTGGTCAGGGATGTGTCTTCT  
GGCCCATTTTGGAGGCGCAAAAATGGTGATCCATGTTTGGATTTATGTGGAAGGGACAGTTCCACAGTATGGAAA  
AGGGGAGACAGTCCCAGGAAGCGTGAAGAGGAAAGGTCATTGGGAATCTCTCAGTACCTCTGCCCTAATCTCTTC  
TCTCCTACGGAGGCAGTTAAGTCTAAAGCCATTTGTCTGGTTTCCATATCTGAACTTCAAGCAGCATCTTCTGGA  
CTTAGTTCTTGGTGGCTGGAGCAGGGAAGTGTGGCCTCATTGAAATGGGATCAGGTTTCAGGATGTTTCATGTG  
TCTGTGTCTTTCTCACACATTGTGAGGAACAGGACAGTCCCTCTGATGCGCTGGTACCTGGCCGCCATGCAGATC  
ATGAGGGGAGAGAAGCAGGCTGCTTCGGGGAATCCTGCCATAGAGGCTGGAGCTTCATGTGCATCTCAGCCAGCC  
CTGCAGCAGCCCTCAGCAGCCCTTCTGTGGGGCTGGGGTATCTGTTGCCAGGAAATCACTGGGCTGAGGAAGTA  
GGAGATGAATGGCTCTGTGCTATCACACCATCTTCTGCATTGAGTCTTCTTCGCTTTCTTATCATCGTCATCATG  
ATTATCATCAATAAATTTGTAAGGAAGGAAACAGGACTGCTTATTGATTTTCATTTCTATGCTACTGAGAGCCAA  
GGCTACGGATTTCTTTCCCCAGGAATGGAGAGAGGAAAGAGATGTGAGATTGGCTACCCAACCTGTTGCATCAGTA  
CCCCATTCTATCATCAACGGGTACAAACGAGTCCTGGCCTTGCTGTGGAGACGGATTACACCTTCCCCTCGCT  
GAAAAGGTCAAGGCCTTCTTGGCTGATCCATCTGCCTTTGAGATGGAGGAGTGGAGGGGTGATGATAAAATGGAA  
GCTCCCGTGTCAAGAGATCAGGCAAATGGGGAGACTCCGTGGGATCCTCTGAAGAATCTACATGCACGTACTTAC  
GAGAATCAGATTAGGGATGCCTACCACACAGGAGTACCAATGTTTAGTATTAGCCCGTAA

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**FIGURE 666**

MRSRLRSVSSASGFLGYDVVRDVSSGPFWRRKNGDPCLDLCGRDSSTVWKRGDSPRKREEERSLGISQYLCPNLF  
SPTEAVKSKAICLVSISELQAASSGLSSWWLEQGKCGLIEMGSGFRMFHVSVSFSHIVRNRTVPLMRWYLAAMQI  
MRGEKQAASGNPAIEAGWERTGAQM

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**FIGURE 667**

CGCGAAGAAGCTGGCAGGGGCACGAGCCGGGGGCGGGTTTGAAGACGCGTCGTTGGGTTTTGGAGGCCGTGAAAC  
AGCCGTTTGAGTTTGGCTGCGGGTGGAGAACGTTTGTGAGGGGCCCGGCCAAGAAGGAGGCCCGCCTGTTACGAT  
GGTGTCCATGAGTTTCAAGCGGAACCGCAGTGACCGGTTCTACAGCACCCGGTGCTGCGGCTGTTGCCATGTCCG  
CACCGGGACGATCATCCTGGGGACCTGGTACATGGTAGTAAACCTATTGATGGCAATTTTGCTGACTGTGGAAGT  
GACTCATCCAAACTCCATGCCAGCTGTCAACATTGAGTATGAAGTCATCGGTAATTACTATTGCTCTGAGAGAAT  
GGCTGATAATGCCTGTGTTCTTTTTGCGTCTCTGTTCTTATGTTTATAATCAGTTCAATGCTGGTTTATGGAGC  
AATTTCTTATCAAGTGGGTTGGCTGATTCCATTCTTCTGTTACCGACTTTTTGACTTCGTCCTCAGTTGCCTGGT  
TGCTATTAGTTCTCTCACCTATTTGCCAAGAATCAAAGAATATCTGGATCAACTACCTGATTTTCCCTACAAAGA  
TGACCTCCTGGCCTTGGACTCCAGCTGCCTCCTGTTTATTGTTCTTGTGTTCTTTGCCCTTATTCATCATTTTTAA  
GGCTTATCTAATTAACGTGTGTTTGGAACTGCTATAAATACATCAACAACCGAAACGTGCCGGAGATTGCTGTGTA  
CCCTGCCTTTGAAGCACCTCCTCAGTACGTTTTGCCAACCTATGAAATGGCCGTGAAAATGCCTGAAAAAGAACC  
ACCACCTCCTTACTTACCTGCCCTGAAGAAATTCTGCCTTTGACAATAAATCCTATACCAGCTTTTTGTTTTGTTA  
TGTTACAGAAATGCTGCAATTCAGGGCTCTTCAAACCTGTTTGATATAAAATATGTTGCTTTTTGTTTAAGCATTT  
ATTTTCAAACACTAAGGAGCTTTTTGACATCTGTTAAACGCTTTTTGTTTTTTTTGTTAAGTCTTTTACATTTTA  
ATAGTTTTTGAAGACAATCTAGGTTAAGCAAGAGCAAAGTGCCATTGTTTGCCTTTAATTGGGGGGTGGGAAGGG  
AAAGAGGGTACTTGCCACATAGTTTCCTTTTTAACTGCACCTTCTTTATATAATCGTTTGCATTTTGTTACTTGC  
TACCCTGAGTACTTTCAGGAAGACTGACTTAAATATTGCGGGTGAGTAAGTAGTTGGGTATAAGATCTGAACTTT  
TCATCTGCAGAGGCAAGAAAAATATTGACATTGTGACTTGACTGTGGGAAGATGATGGTTGCATGTTTCTAGTTT  
GTATATGTTTCCATCTTTGTGATAAGATGATTTAATAAATCTCTTTAAATACTT

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**FIGURE 668**

MVSMSEFKRNRSDRFYSTRCCGCCHVRTGTIILGTWYMVVNLLMAILLTVEVTHPNSMPAVNIQYEVIGNYYSSER  
MADNACVLFAVSVLMFIISMLVYGAIQVGVWLIPFFCYRLDFVLSCLVAISSLTYLPRIKEYLDQLPDFPYK  
DDLLALDSSCLLFIVLVFFALFIIFKAYLINCWNCYKYINNRRNVPEIAVYPAFEAPPQYVLPTYEMAVKMPEKE  
PPPPYLP

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**FIGURE 669**

GCGGCTTGCGGGGACCACAGCTCCCGAAAGCGACGTTTCGGCCACCGGAGGAGCGGGAGCCAAGCAGGCGGAGCTC  
GGCGGGAGAGGTGCGGGCCGAATCCGAGCCGAGCGGAGAGGAATCCGGCAGTAGAGAGCGGACTCCAGCCGGCGG  
ACCCTGCAGCCCTCGCCTGGGACAGCGGCGCGCTGGGCAGGCGCCCAAGAGAGCATCGAGCAGCGGAACCCGCGA  
AGCCGGCCCGCAGCCGCGACCCGCGCAGCCTGCCGCTCTCCCGCCGCCGGTCCGGGCAGCATGAGGCGCGCGGCG  
CTCTGGCTCTGGCTGTGCGCGCTGGCGCTGAGCCTGCAGCCGGCCCTGCCGCAAATTGTGGCTACTAATTTGCC  
CCTGAAGATCAAGATGGCTCTGGGGATGACTCTGACAACTTCTCCGGCTCAGGTGCAGGTGCTTTGCAAGATATC  
ACCTTGTCACAGCAGACCCCCCTCCACTTGGAAGGACACGCAGCTCCTGACGGCTATTCCCACGTCTCCAGAACCC  
ACCGGCCTGGAGGCTACAGCTGCCTCCACCTCCACCCTGCCGGCTGGAGAGGGGCCCAAGGAGGGAGAGGCTGTA  
GTCCTGCCAGAAGTGGAGCCTGGCCTCACCGCCCGGGAGCAGGAGGCCACCCCCGACCCAGGGAGACAGCATCA  
GGGTTAAGAAGACTTTTTTTTTTTTTTTTTTAACTAGGAGAACCAAATCTGGAAGCCAAAATGTAGGCTTAGTTT  
GTGTGTTGTCTCTTGAGTTTGTGCTCATGTGTGCAACAGGGTATGGACTATCTGTCTGGTGGCCCCGTTTCTGG  
TGGTCTGTTGGCAGGCTGGCCAGTCCAGGCTGCCGTGGGGCCGCCGCCTCTTTCAAGCAAGGCCAGAGGCCCCCA  
GCCCAGGGCTCCTGCACCTTACTTGCTTATTTGACAACGTTTCAGCGACTCCGTTGGCCACTCCGAGAGGTGGGCC  
AGTCTGTGGATCAAGAGATGCACCACCAAGCCAAGGGAACCTGTGTCCGGTATTCGATACTGCGACTTTCTGCCTG  
GAGTGTATGACTGCACATGACTCGGGGGTGGGGAAAGGGTTCGGCTGACCATGCTCATCTGCTGGTCCGTGGGAC  
GGTGCCCAAGCCAGAGGCTGGGTTCATTTGTGTAACGACAATAAACGGTACTTGTCATTTCCGGGC

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**FIGURE 670**

ACTGCGCGCCCCGCGGAGTCCCCGCGCCGTCATGCAGTCCCCGGCGGTGCTCGTCACCTCCAGGCGACTTCA  
GAATGCCCACACTGGCCTCGACCTGACTGTGCCCCAGCACCAGGAGGTACGGGGCAAGATGATGTCTGGACACGT  
GGAGTACCAGATCCTGGTGGTGACCCGTCTGGCTGCGTTCAAGTCGGCCAAGCACAGGCCCCGAGGATGTCGTCCA  
GTTCTTGGTCTCCAAAAAGTACAGCGAGATTGAGGAGTTTTACCAGAACTGAGCAGTCGTTATGCAGCAGCCAG  
CCTCCCCCACTACCCAGGAAGGTCCTGTTTGTGGGGAGTCTGACATCCGGGAGAGGAGAGCCGTGTTCAATGA  
GATCCTGCGCTGTGTCTCCAAGGATGCCGAGTTGGCAGGCAGCCCAGAGCTGCTAGAGTTCTTAGGTACCAGATC  
CCCAGGGGCTGCAGGGCTCACCAGCAGAGATTCTCTGTCTGGATGGCACAGACAGTCAGACAGGGAATGATGA  
AGAGGCTTTTCGACTTTTTTGTAGGAGCAAGACCAAGTGGCAGAAGAGGGTCCGCCCCGTCCAGAGCCTGAAGGGCGA  
GGATGCTGAGGAATCCTTGGAGGAGGAGGAGGCGCTGGACCCCTCTGGGCATTATGCGCTCCAAGAAGCCCCAAGAA  
ACATCGGTGTGAAGGGAAGGGACTGGGCCCTGCAGGGTCAGAACCTCCCCACCCCCAGGGGAGGCCAGGCAGAAG  
CCTGGGTACAGCACCCAGAAGTGCATGGTTCCATTTCTCCGGGGCTGTGGGGCCAAAGTAGAAGCCTGCGGGC  
TGCGGGAGCGGCTCTCACCTTAGGAGCCAGAGCCCAATGTGTCTTATTTCCCGTGGACATGAAGGGGAGGGAGGG  
TGTGGGGATGCCTTGCCAACCAGAAGCCCAGCCCCAAGGATGAAGCAAGACATGTGGGGCCGTAGCGAGGTGTCA  
CATGGGGCAGGGAAGCTTCATGCCCACGGGTTCTGCCAGCCCCAGCACAGACCCAACTGGGGCTGGGCCTCTAT  
CCCTCCTCTGCCTCTGTTTCGCATAGTAAGAAGGAGTGACCGGTATCCTCCCCTTCCCCTACCCTAAGCTGTAGCC  
TGGGTGACTGACTGGCCTGGGCCTGGGGTGGGGACGTCCCCAAGCCAAATTACTCCAGGGCCTCTGCTCCTCGTG  
GCTGCCAGGGGCCTGCAGGGTCTGGGTGGGTCTCCAGGAGAGGAATACTGAGTGGGAGATCGGCTGTCTGGAGT  
GTTCTGATGCAAGTCTCTCTCTCCTGAGCCTCCTCTTGATGCAAGCTCTAAAGGGAGAAGTCAGGCCCTGCCTCT  
CCAGGGTATAGACGGCCCTGCTAGGCCCCAGTTCTTCTCCTTCCCCCTTTCCCAGGAAAGGCCAGCCCAGTCCA  
TGGCCTTCTTGGGCCTCTGGGCACAGAGCCAATGTTTCGTCATTGCAGCTCTCAGCAAACCTGGGTCATAGCTTTCC  
CCACAGCTCAGCCTGGGGCCTGGGCAGGGCTCCAGCCTGCACCGCCTCCCACTGCCAGTGGGGCATGATTCTCT  
CAGGCTTCTGCCCCGAGGCCTTCGTGCTCCTCAGGGTCTGGACTTGGTCAGTGGCCTTTACCAGTGGAGCTGCC  
TTCCCAGGGAGAAGGAGCCGTGCGCCAGGGCAGGGCCCGTGCCCTAGACTTCTCCCGACCCCCAGAGCGCTGGTA  
CACAGGTCTAGGCACCACACAGTGCTTTGGAAATTCTCAGTGAATGATGTTTAATAAAGCAAAAAATGTC

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**FIGURE 671**

MQSPAVLVTSRRLQNAHTGLDLTVPHQEVRGKMMSGHVEYQILVVTRLAAFKSAKHRPEDVVQFLVSKKYSEIE  
EFYQKLSSRYAAASLPPLPRKVL FVGESDIRERRAVFNEILRCVSKDAELAGSPELLEFLGTRSPGAAGLTSRDS  
SVLDGTDSTGNDEEAFDFFEEQDQVAEEGPPVQSLKGEDAEESELEEEALDPLGIMRSKKPKKHRCEGKGLGPA  
GSEPPHPQGRPGRSLGHSTQNCMVFFSPGLWGQSRSLRAAGAALT LGARAQCVLFPVDMKGREGVGMP CQPEAQP  
QG

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**FIGURE 672**

ATGGGTCAAAGTCAGAGTGGTGGTCATGGTCCTGGAAGTGGCAAGAAGGATGACAAGGACAAAAAAGAAATAT  
GAACCTTCTGTACCAACTAGAGTGAGGAAAAAGAAGAAGAAAACAAAGGGACCAGATGCAGTCAGCAAACCTGCCA  
CTGGTGACACCTCACACTCAGTGCCGGTTAAAATTACTGACATTAGAGAGAATTAAAGACTATCTTCTCATGGAG  
GAAGAATTCATTAGAAATCAGGAACAGATGAAACCATTAGAAGAAAAGCAAAAGGAGGAAAGATCAAAAGTGGAT  
GATCTGAGGGGGACCCCGATACAAGGATCTTCTGGAAACTGGCTGCTCGGTCCTGCTCAACCACAAGGTGCATGC  
CGTGATGGGGTGCTGATGGATGACACGGATCCCCTGGTCACAGTGATGAAGATGGAAAAGACCCCCCAGGAGACC  
TATGCCAATATTGGGGGGCTGGACAACCAAATTCAGGAAATAAAGGAAGCTGTGGAGTTTCCTCTCACCCATCCT  
GAATATTATGAAGAGATGGGTAAAAAGCCTCCTAAGGGGGTCATTCTCTATGGTCCACCTGGCACAGGCAAAACC  
TTGTTATCCAAAGCAGTAGCAAACCAAACCTCAGCCACTTTCTTGAGAGTGGTTGGCTCTGAACTTATTGAGAAG  
TACCTAGTTGCTGAAGAGCATGAACTATCCATCATGTTTACTGATGAAATTGGAGCCATTGGGACAAAAAGATAT  
GACTCAAATTCCTGGTGGCCGCATTGACAGGAAGATCAAGTTCTCCCTGCCTGATGAAAGGACTAAGAAGCGTATC  
TTTCAGAATCACACAAGCAGGATGACACTGGCCGATGAAGTAACCTGGACGACTTGATCATGGTTAAAGATGAC  
CTCTCTGGTGCTGACATCAAGGCAATCTGTACAGAAGCTGGTCTGATGGCCTCAAGAGAACGTAGAATGAAAGTA  
ACGAATGAATTCTTCAAAAAATATAAAGAAATGTTCTTTATAAGAAACAGGAAGGCACCCCTGAGGGGCTCTATC  
TCTAGTGAACCACAGCTGCCATCAGGAAAATGGTTGGGCGATTCCCTCGACCCCTGAAAAGGATGAGCAACTTGTT  
CCCAAAGCTGGAGAAGACACTCCTGAGGGCTATTTAGGACAACCTTATGACTCAGCTCTTTGAGCAGAAAGAGGCC  
AAAAAGTTCAGCAGAAAAAGCCCTGAACTCTTGGAAGAGCTGGCTTCAAGCCTGGCTTAG



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**FIGURE 673**

MGQSQSGGHGPGSGKKDDDKKKKYEPSVPTVRKKKKKTKGPD AVSKLPLVTPHTQCRLKLLTLERIKDYLLME  
EEFIRNQEOMKPLEEKQKEERSKVDDL RGTPIQGSSGNWLLGPAQPQGACRDGVLMDDDTDPLVTVMKMEKTPQET  
YANIGGLDNQIQEIKEAVEFPLTHPEYYEEMGKKPPKGVILYGPPGTGKTLLSKAVANQTSATFLRVVGSELIQK  
YLVAAEEHEL SIMFTDEIGAIGTKRYDSNSGGRIDRKIKFSLPDERTKKRIFQNHTSRMTLADEVTLDDLIMVKDD  
LSGADIKAICTEAGLMASRERRMKVTNEFFKKYKEMFFIRNRKAPLRGSISSEPQLPSGKWLGDSSTPEKDEQLV  
PKAGEDTPEGYLGQLMTQLFEQKEAKKFSRKSPELLEELASSLA

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**FIGURE 674**

GACGGCGCCTTCGCGAAACACTATGCTAATGGCATGGTGCCGCGGTCCTGTCTTGCTGTGCCTGCGGCAGGGGCT  
CGGAACCAATTCATTCTGCACGGCCTGGGGCAGGAGCCCTTCGAGGGAGCTCGGTCACTGTGTTGCAGGTCCTC  
GCCTAGAGACCTGCGAGATGGAGAAAGAGAGCACGAGGCGGCACAAAGGAAAGCCCCAGGAGCAGAGTCTTGCCC  
ATCTCTCCCTCTGAGCATCTCGGACATTGGGACTGGATGTCTTTTCGTCACTGGAAAACCTCAGACTGCCGACGCT  
GCGGGAAGAGTCATCACCTCGAGAGCTCGAGGACTCGAGCGGAGACCAGGGCCGGTGCGGTCCCACACACCAGGG  
ATCCGAGGATCCTTCGATGCTCTCGCAGGCCCAGTCCGCTATCGAGGTCGAAGAGCGTCACGTCTCCCCTTCTTG  
TTCAACTTCCAGAGAGAGACCCTTTCAGGCTGGGGAGCTGATTTTAGCTGAGACTGGGGAGGGAGAAACAAAATT  
TAAGAAATTATTTAGGTTGAACAACCTTCGGACTCTTAAATAGTAACTGGGGGGCAGTCCCCTTCGGCAAGATCGT  
GGGGAAGTTCCCCGGCCAGATACTGAGGAGTTCCTTCGGTAAGCAGTACATGCTGAGGAGGCCAGCCTTGGAAGA  
CTATGTAGTATTGATGAAAAGAGGGACTGCCATAACATTCCTAAAGGATATTAATATGATTCTCTCAATGATGGA  
TATCAACCCAGGTGATACTGTTTTGGAAGCTGGCTCAGGCTCTGGTGGAATGAGCTTATTTTTATCCAAAGCAGT  
TGGATCACAAGGACGAGTCATAAGTTTTGAGGTACGAAAAGACCACCATGATCTGGCTAAGAAGAATTACAAACA  
CTGGCGTGATTCATGGAAATTAAGTCATGTAGAAGAGTGGCCAGACAATGTGGATTTTATTCATAAGGACATTTT  
AGGAGCAACCGAAGACATAAAATCTTTAACATTTGACGCAGTAGCTTTGGATATGTTAAATCCTCATGTACTTT  
GCCTGTTTTTTTACCCACATCTTAAGCATGGTGGTGTATGTGCTGTATATGTAGTAAACATCACACAGGTTATTGA  
ACTTTTAGATGGAATTCGCACCTGTGAACCTTGCTCTTTTCATGTGAAAAGATAAGCGAGGTCATTGTCTAGAGATTG  
GTTGGTTTTGCCTTGCAAAACAGAAAAATGGAATTTTAGCTCAAAAAGTAGAATCTAAAATCAACACAGATGTACA  
ACTAGATTCTCAAGAGAAAATTGGAGTTAAAGGTGAGCTGTTTCAAGAGGATGACCATGAAGAATCGCATTCTGA  
TTTTCCATATGGATCATTTCCCTATGTTGCTAGACCAGTACACTGGCAACCTGGTCATACAGCTTTTCTTGTCAA  
GTTGAGGAAGGTCAAACCACAACCTTAACTGAGTACTCCAGATGACAGTAACTGACTTGAAGATGGAAAAATATCA  
AAATAGAACCTTTATATTGAAAATCACTGCTTCCATAGATTGGCATTTTTAGCTATTACTATGACTTATATAACTT  
ATACATATAATTTTGAAAATAACAATAAAGATGTATAACATAGCAAACTGCTTAAACATCCCATTTTGACAC  
TTGTCTTGCAGTTAGTTTGACATTTTGTAGTTAATGATTCCAAATTGGTTTAGTTGGGCCATCTCATTCTTCACT  
TCCTGTAAACCACTCCATAGATTTGTCTTTCTTCAAGAAATTAGTTTTCTTTCCTTTATTTGATTGATGGTCATT  
GACTACTGAAATAAAATATGCATTTTAAGATAAAAAAAAAAAAAA

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**FIGURE 675**

MLMAWCRGPVLLCLRQGLGTNSFLHGLGQEPFEGARSLCCRSSPRDLRDGEREHEAAQRKAPGAESCPSLPLSIS  
DIGTGCLSSLENLRLPTLREESSPRELEDSSGDQGRCGPTHQGSSEDPMSLSQAQSAIEVEERHVSPSCSTSRERP  
FQAGELILAETGEGETKFKKLFRLNNGLLNSNWGAVPFGKIVGKFPQGILRSSFGKQYMLRRPALEDYVVLMKR  
GTAITFPKDINMILSMDINPGDTVLEAGSGSGMSLFLSKAVGSQGRVISFEVRKDHDLAKKNYKHWRDSWKL  
SHVEEWPDNVDFIHKDISGATEDIKSLTFDAVALDMLNPHVTLPVFYPHLKHGGVCAVYVVNITQVIELLDGIRT  
CELALSCEKISEVIVRDWLVLAKQKNGILAQKVESKINTDVQLDSQEKIGVKGELFQEDDHEESHSDFPYGSFP  
YVARPVHWQPGHTAFLVKLRKVKPQLN

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**FIGURE 676**

ATGCAACAAGCTTCTACCCCCAACCCGGCCAGACAAAGCCCCGGCAGCAGGGCCGGCACTTCCGAGCCTCCGGA  
CTCGGGACGCCGCGCTCTTACCCTGGCCTCATCCAGAGTGACGCCGGCGCCACCGCTTCCCCGGCTTTGGCGGC  
GGGGCAGCTGGCGGCGCGGGTCTTGGAGGAGCGGGTCCGAGAGGAGATGAAATGGCTGCTGCCTCCGGTCGCCCC  
AGGCTCTGCTCCGGCCCCAGGCCAGGCCGGGACCAGGAGACTTGGACCCGAGAAGGCGGAGAGAGCTCTTCCG  
GGTGTTACCATGGTCCAGCCAGGGGGACGGAGTCCACGCCGCGCCGGGAGAGCCGAGCAAGGCCGGCCCCGCG  
GCCGCTGCCCCGCCCCGGCGCGGCGTCAGCGCTCGGCGGCCGGGAGCGACGCTCTAGGCTGTCAGCTCGGTGG  
TTTCCAGCTCTCCCCGACCGCAGGGCTGGGGCGACCAGAAAAGCCAGACTAATCAGGACGAGTTCGGGCGTGGA  
TTGGGCCTGAAGCCCTCATGCCCAGCCAGGCCTGAATGCCCCAGACCCACCGTCACCCCCGTGGCCTGGATGGA  
GCAGGGGACGGCCGGCGAAGGCGCGGGTGGAAAGGGGAGCGGCGACGAAGGCGCGAGGAGCTGACTGGGAATCCC  
CAAGCTACCCGAGGCAAGACACTGAACTTGAGTCGCACTTTTCATGCCTGTAGAAATGAGAATGACAGCTGTGAT  
AAAAAAAAAATTCATCTGGGCGGTATCTGGAACCTGGGCGTTCGAAACTTACAGTTATGCGCAACACAATGTTT  
CTATTTTCAAAGGCGAACGCTGCACGATCGCAGTCCAGTGATACAAATAATAAAAGAGTTTATTACTTGTGAGCA  
ATGATGAATGTTTCGTGTGGCATCCAGCGTTGAGTTCCTATTCTTACTTGGAACCTCATTGGTCCCTGTGTCTGGGG  
CCAGCACTGATGGACACAATAAGTTTGCACCTCGTCTTCCCTCTCATGTATCATACCTGGAATGGGATCCAACAC  
TTGATGTGGGACCTAGGAAAAGGCCTGAAGATTCCCCAGCTATACCAGTCTGGAGTGTTGTCCTGGTTCCTTACT  
GTGTTATTTGTAGGGCTGGCAGCTGTGTGA

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**FIGURE 677**

MQQASYPQPGQTKPRQQGRHFRASGLGTPRSYPGLIQSDAGATASPGFGGGAAGGAGLGGAGPRGDEMAAASGRP  
RLCSGPRPRPGTRRLGPEKAERALPGVHHGPARGTESTPRPGEPSKAGPPAAAPPPARRQRSAAGERRSRLSARW  
FPALPDRRAGATRKARLIRTSSGVELGLKPSCPARPECPRPHRHPRGLDGAGDGRRRRRGVEGERRRRRREELTGNP  
QATRGKTLNLSRTFHACRNENDSCDKKKIHLGGIWNLGVPKLTVMRNTMFLFSKANAARSQSSDTNNKRYYLSA  
MMNVRVASSVEFLFLLGTHWSLCLGPAIMDTTKFALVFPLMYHTWNGIQHLMWDLGKGLKIPQLYQSGVVVLVLT  
VLFVGLAAV

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**FIGURE 678A**

ACAGAGAGATTGGTGT TTTTGTGAGGCAGTGAGACCTAAGGTAACCTTTATCAAAAAGGATGAGATTGGGAAAAGG  
AAAAC TACTCAGGACTGGACTGAATGCGTTGCATCAAGCAGTGCATCCGATCCATGGCCTTGCCTGGACCGATGG  
GAATCAAGTTGTCCTAACTGATTTGCGGCTTCACAGTGGAGAGGTCAAGTTTGGGGACTCCAAAGTCATTGGACA  
GTTTGAATGTGTCTGTGGGTGTCTCTGGGCCCCACCTGTTGCAGATGATACACCTGTTCTACTCGCTGTCCAGCA  
TGAGAAGCATGTCACTGTGTGGCAGCTGTGTCCCAGCCCTATGGAGTCAAGCAAATGGCTGACGTCTCAGACTTG  
TGAGATTAGAGGATCACTACCTATCCTTCCCCAGGGCTGTGTGTGGCACCCAAAATGTGCTATTCTGACTGTGTT  
GACTGTCTCAGGATGTCTCCATTTTCCCTAATGTTCACTCTGATGATTCCCAGGTAAAGGCAGACATCAACACCCA  
GGCCCGCATTCACTGTGCATGTTGGACCCAGGATGGCCTGAGGCTGGTGGTGGCAGTAGGCAGCAGCCTGCATT  
TTATATTTGGGACAGCGCTCAGAAGACTCTTCACAGGTGCTCCTCCTGCCTGGTGTGTTGATGTGGACAGCCACGT  
CTGCTCCATCACAGCAACTGTGGACTCACAGGTTGCTATAGCTACTGAGCTTCCATTGGATAAGATCTGTGGCTT  
AAATGCATCTGAAACCTTTAATATCCCACCTAACAGTAAAGACATGACTCCGATGCTTTACCAGTTATTGGTGA  
AGTACGCTCTATGGATAAAGAGGCAACTGATTCTGAAACAAATTCTGAAGTATCAGTTTCTTCTTCTTATTAGA  
ACCTCTGGATCTAACTCACATACATTTCAATCAACATAAGTCTGAGGGTAATTCTCTTATTTGTCTAAGAAAAA  
GGACTACTTGACAGGAAC TGGCCAAGATTCTTCACATTTGGTCTTGTGACCTTTAAGAAGGCAGTTACCATGAC  
GAGAAAAGTCACTATTCCAGGCATTCTGGTCTCTGATCTGATAGCATTTAATCTTAAAGCCCACGTAGTGGCAGT  
GGCTTCCAACACTTGTAATATAATTTTGATCTACTCTGTCACTTCCATCTTCAGTCCCAAACATCCAGCAAATTCG  
ATTAGAGAACACTGAAAGACCAAAAGGGATATGTTTCTTGACAGACCAACTATTACTAATTTTGGTAGGAAAAA  
AAAAC TCACTGATACAACATTTCTTCTTCTTCAAAGTCTGATCAGTATGCCATTAGCTTGATTGTTAGAGAAAT  
AATGTTGGAAGAAGAACCTTCAATAACATCAGGTGAAAGCCAGACTACCTACTCTACTTTTCAGTGCTCCGTAAAA  
TAAAGCAAATAGAAAAAAGTTAATTGAAAGTCTTTCCCCAGATTTTGTGCACCAAACAAAGGGCTGTTGCTGAC  
AGTTAATACCAGTAGTCAGAATGGAAGGCCTGGAAGAACACTTATTAAAGAAATCCAGAGTCTCTGTCTAGTAT  
CTGTGATGGCTCCATAGCTCTAGATGCTGAGCCTGTTACCCAGCCAGCATCGCTGCCAGACACAGCAGCACACC  
AGACCACACCAGCACACTGGAGCCTCCTCGTTTGCCTCAAAGAAAGAACTTACAAAGTGAAAGGAAACTTATCA  
GCTGTCTAAGGAGGTGGAATTTTATCTAGGAACCTGGTTGAAATGCAACGGTGTCTTTCTGAACCTACAAACCG  
TCTGCATAATGGGAAGAAATCCTCTTCAGTGTATCCACTCTCTCAAGATCTTCTTATGTTTACATCATTTACCA  
GAAACCTTATTATCTAGGCTCTGTTGTTGAAAAAGAGCGGTGCTTCTCTGTGATGGTAAACTAAGGCTCAGTAC  
AGTTCAGCAGACTTTTGGCCTTTCTCTCATTGAAATGCTACATGATTCCCACTGGATTCTTCTCTCTGCTGACAG  
TGAGGGCTTTATCCCGTTAACCTTCACAGCCACACAGGAAATAATCATAGAGATGGCAGCCTGTCCAGGTCAGA  
TGTCTTCAGAGACTCTTTTTCTCACAGTCCAGGTGCTGTTTCTTCTTAAAGTCTTTACAGGCCTTGCTGCCCC  
CAGTTTAGATACCCTGGCTGTTGTAACCATGTAGATGGCATGGCTTGATATCTGCAGTGTCTTGTGTGTAGC  
TCTTCAGATGAGACCATTACAAACAAGGCCTGCTTGACACTGGACACTCGCCAATGAGACTCCCCTGCACTCAG  
GCGAAGCGCTTGCCATGGTCGGCTCTCCTGGTTTCCCCCTGTTTCCCCCTGAGCTGAGGCTCGCTGCTGTGTAGCA  
GAGCTCAGTCTTTATTAGATGGCTCCGAAAGTGGTGTGTTATGTATTATGACTGTGTGGTTTTGACTAAGGGCAG  
AATTCTCAGAAACAAAACAATATTATGGTGCCATATGGATGGTGTGTTTATGGTTTCTCTGAGGCTTTGTGTCCCTT  
GTCCAAAGCTGCATTGAAGCTGTCTTAGGAGCACTTAAAGATACTTGGCATTGTTATAGGTCTTTTTCTTGGC  
TTCAAGAGGAGGTTGAGGAGTCTGCTGGGGGGCATGTGCTCTAGCATATTAACCTCAAACCAGCAAGAATTAGCA  
GAGCTCCAAGGAGGACCAGAGACCCACTGGCTTCTGCTCTCAGGAACAGGAAGTGGCTCTGATGTTGCCTGGACC  
TCCCAGAATTTAAACCAAACCTCTTGCTTCTTAAACAAATTCTGGCTGACGAAGGTCCAGGTACTCTTAAAAAC  
TGGCCCTGGGAAAATTTTGAATGAAATTTCAAGGGAATTTGTCCCCTCTGGGTTCCACTTGAGGTTGTGCCGATG  
CTGCTACCACACTGTGAGCCCAGGTAAGTCTTACTGCAGGATTTTGTGCTGTGGCCACTCATGAGTGTCCCTGA  
AATAACTTTTTTTTTTTTAAATCCAGTTTTGGGATCACGCAACTTTCTATTTTTCTCCCAGTAGTCAGCTCCC  
TTAGTTAACTTGTCACTTTAATTTGATATTTTATTTTCTCTCTTTTAAAGTCTTAGAGACCAGCAGAGAATCTG  
TGAGAGAAAGTATTTAGGAAGTTAGAAATTAACCGAATCTGAGGTAGTCTTAAAGTGCCATTTTGTTCAC  
TTATGGGCTAAAGTACCAGCTTAGTCAGGTAAGAGCCCTGACCCACTTCAGATGGTAACACCACTTCTCACTGCC  
TTCAGATGGAATCACAGATTTCACTCACGGCGCATAACAAATTGATCAGTGAAGTGGCTAGGCATCTGCAGATAAA  
TTGTTTCAGCCATAGAAGCTCCATTAGCACATATGCTTCTTTTCCCCCTTCTTTTAAATCATCTGGAAAGAA  
ACTATTTTGTGCCCTTGGGGACTCCTGTCTGTCTGTTACAGTTTACCAAGATGGAGCTGGGTTAGGAAAGAAGTG  
AGGGCCCATTTTGTGGTTCAAGTGCCTAGACAGCTGCTGGGGTAGGAAGCACAGGCAATGTCTGCAATCAGCTG

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**FIGURE 678B**

TGGGAGAGCGGTGACTGAGAACAGTCTGAGGCCTGGCTCCACTTGGAAGTATCTGGGGTGCGATGAAATCACAAT  
TATCTTGAAGCCTAAAGAGGGGAAC TACAAGACTGT TAACTAAGATCAATGTGGGCACCTAAAAGGGTATGTTAAA  
ATCACCATTCTCAGGTCAAATACTGTGAAATAAAAATGGAAACGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAA

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**FIGURE 679**

MELGKGKLLRTGLNALHQAVHPIHGLAWTDGNQVVLTDLRLHSGEVKFGDSKVIQFECVCGLSWAPPVADDTPV  
LLAVQHEKHVTVWQLCPSPMESSKWLTSTCEIRGSLPILPQGCVWHPKCAILTVLTAQDVSIFPNVHSDDSQVK  
ADINTQGRIHCACWTQDGLRLVVAVGSSLHSYIWDSAQKTLHRCSSCLVFDVDVSHVCSITATVDSQVAIATELPL  
DKICGLNASETFNIPFNSKDMTPYALPVIGEVRSMDEADTSETNSEVSVSSSYLEPLDLTHIHFNQHKSEGNL  
ICLRKKDYLTGTGQDSSHLVLTFFKAVTMTRKVTIPGILVPDLIAFNLKAHVAVASNTCNIILYVIPSSVP  
NIQQIRLENTERPKGICFLTDQLLLILVGKQKLTDTTFLPSSKSDQYAI SLIVREIMLEEEPSITSGESQTTYST  
FSAPLNKANRKKLIESLSPDFCHQNKGLLLTVNTSSQNGRPGRTLKEIQSPLSSICDGSIALDAEPTQPASLP  
RHSSTPDHTSTLEPPRLPQRKNLQSEKETYQLSKEVEILSRNLVEMQRCLSELTNRLHNGKKSSSVYPLSQDLPY  
VHIYQKPYLGPVVEKRAVLLCDGKLRLSTVQQTFLSLIEMLDHSHWILLSADSEGFIPLTFTATQEIIIRDG  
SLSRSDVFRDSF SHSPGAVSSLKVFTGLAAPSLDTTGCCNHVDGMA



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**FIGURE 680**

TTCTCTTAGCAGCACCCAGCTTGCCCACCCATGCTCAAGATGGGCGGGATGCCAGCCTGTTACATAAATGTGCCA  
AAAGCCTGGCCATGCCTGGAAAAATGGACCAATCCGCCCGCCAAGAGGTTGGGTCTCGTTCCCTAGAGAGAAGGAA  
GTTTCCTCTCCTTGAAAGTGAGAGCTAGAATCGCACITTTCTGTCAAGCTGAGAGAAAGACTCTTTTCCAGAGGCTA  
AAAGGACAAGAAAATCTGATTGCTTGCTTCTAACTTTGCGTTTTTAAAGGGGGAAGGAGGAAAAGGAAAGAGGGGG  
AGGGTGGTTCTGCTTAGCCCCACCCCTCCGGCTACCCCAGGTCCAGCCGTCCATTCCGGTGGAGGCAGAGGCAGT  
CCTGGGGCTCTGGGGCTCGGGCTTTGTCACCGGGACCCGCAGGAGCCAGAACCACTCGGCGCCGCCTGGTGCTG  
GGAGGGGAGCCGGGCCAGGAACAATATGTTAGCCGTGCACTTTGACAAGCCGGGAGGACCGGAAAACCTCTACGT  
GAAGGAGGTGGCCAAGCCGAGCCCGGGGGAGGGTGAAGTCCTCTGAAGGTGGCGGCCAGCGCCCTGAACCGGGC  
GGACTTAATGCAGAGACAAGGCCAGTATGACCCACCTCCAGGAGCCAGCAACATTTTGGGACTTGAGGCATCTGG  
ACATGTGGCAGAGCTGGGGCCTGGCTGCCAGGGACACTGGAAGATCGGGGACACAGCCATGGCTCTGCTCCCCGG  
TGGGGGCCAGGCTCAGTACGTCACTGTCCCCGAAGGGCTCCTCATGCCTATCCCAGAGGGATTGACCCTGACCCA  
GGCTGCAGCCATCCCAGAGGCCTGGCTCACCGCCTTCCAGCTGTTACATCTTGTGGGAAATGTTCAAGGCTGGAGA  
CTATGTGCTAATCCATGCAGGACTGAGTGGTGTGGGCACAGCTGCTATCCAACCTACCCGGATGGCTGGAGCTAT  
TCCTCTGGTCACAGCTGGCTCCCAGAAGAAGCTTCAAATGGCAGAAAAGCTTGGAGCAGCTGCTGGATTCAATTA  
CAAAAAAGAGGATTTCTCTGAAGCAACGCTGAAATTCACCAAAGGTGCTGGAGTTAATCTTATTCTAGACTGCAT  
AGGCGGATCCTACTGGGAGAAGAACGTCAACTGCCTGGCTCTTGATGGTTCGATGGGTTCTCTATGGTCTGATGGG  
AGGAGGTGACATCAATGGGCCCCGTGTTTTCAAAGCTACTTTTTAAGCGAGGAAGTCTGATCACCAGTTTGCTGAG  
GTCTAGGGACAATAAGTACAAGCAAATGCTGGTGAATGCTTTCACGGAGCAAATTCTGCCTCACTTCTCCACGGA  
GGGCCCCCAACGTCTGCTGCCGGTTCTGGACAGAAATCTACCCAGTGACCGAAATCCAGGAGGCCCCATAAGTACAT  
GGAGGCCAACAAAGACATAGGCAAGATCGTCCTGGAAGTGCCTCAGTGAAGGAGGATGGGGCAGGACAGGACGCG  
GCCACCCAGGCCTTTCCAGAGCAAACCTGGAGAAGATTACAATAGACAGGCCAAGAAACCCGGTGCTTCCTCC  
AGAGCCGTTTAAAGCTGATATGAGGAAATAAAGAGTGAAGTGG

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**FIGURE 681**

GGCAGAGGGTCCCGTTACCGCCTCCTGCTCCTGCCGCGCGCACCCCCGGGGCTTCGGCTCCGGCACGGGTTCGCG  
CCCAGCTTTCTCCTGCACCTGAGGCCGCCGGCCAGCCGCCGCCATGGGTGCCTACCTCTCCCAGCCCCAACACGGTGA  
AGTGCTCCGGGGACGGGGTTCGGCGCCCCGCGCCTGCCGCTGCCCTACGGCTTCTCCGCCATGCAAGGCTGGCGCG  
TCTCCATGGAGGATGCTCACAACCTGTATTCTGAGCTGGACAGTGAGACAGCCATGTTTTCTGTCTACGATGGAC  
ATGGAGGGGAGGAAGTTGCCTTGTACTGTGCCAATATCTTCCTGATATCATCAAAGATCAGAAGGCCTACAAGG  
AAGGCAAGCTACAGAAGGCTTTAGAAGATGCCTTCTTGGCTATTGACGCCAAATTGACCACTGAAGAAGTCATTA  
AAGAGCTGGCACAGATTGCAGGGCGACCCACTGAGGATGAAGATGAAAAAGAAAAAGTAGCTGATGAAGATGATG  
TGGACAATGAGGAGGCTGCACTGCTGCATGAAGAGGCTACCATGACTATTGAAGAGCTGCTGACACGCTACGGGC  
AGAAGTGTACACAAGGGCCCTCCCCACAGCAAATCTGGAGGTGGGACAGGCGAGGAACCAGGGTCCCAGGGCCTCA  
ATGGGGAGGCGAGGACCTGAGGACTCAACTAGGGAACTCCTTCACAAGAAAAATGGCCCCACAGCCAAGGCCTACA  
CAGGCTTTTTCTCCTCAACTCGGAACGTGGGACTGAGGCAGGCCAAGTTGGTGAGCCTGGCATTCCCCTGGTGAGG  
CTGGGCCCTTCTGCTCTTCAGCCTCTGACAAGCTGCCTCGAGTTGCTAAGTCCAAGTTCTTTGAGGACAGTGAGG  
ATGAGTCAGATGAGGCGGAGGAAGAAGAGGAAGACAGTGAGGAATGCAGCGAGGAAGAGGATGGCTACAGCAGTG  
AGGAGGCAGAGAATGAGGAAGATGAGGATGACACCGAGGAGGCTGAAGAGGACGATGAAGAAGAAGAAGAAGA  
TGATGGTGCCAGGGATGGAAGGCAAAGAGGAGCCTGGCTCTGACAGTGGTACAACAGCGGTGGTGGCCCTGATAC  
GAGGGAAGCAGTTGATTGTAGCCAACGCGAGGAGACTCTCGCTGTGTGGTATCTGAGGCTGGCAAAGCTTTAGACA  
TGTCTATGATCACAAACCAGAGGATGAAGTAGAACTAGCACGCATCAAGAATGCTGGTGGCAAGGTCACCATGG  
ATGGGCGAGTCAACGGGGGCTCAACCTCTCCAGAGCCATTGGGGACCACTTCTATAAGAGAAACAAGAACCTGC  
CACCTGAGGAACAGATGATTTTCAGCCCTTCTGACATCAAGGTGCTGACTCTCACTGACGACCATGAATTCATGG  
TCATTGCCTGTGATGGCATCTGGAATGTGATGAGCAGCCAGGAAGTTGTAGATTTTCATTCAATCAAAGATCAGCC  
AGCGTGATGAAAATGGGGAGCTTCGGTTATTGTCTATCCATTGTGGAAGAGCTGCTGGATCAGTGCCTGGCACCAG  
ACACTTCTGGGGATGGTACAGGGTGTGACAACATGACCTGCATCATCATTTGCTTCAAGCCCCGAAACACAGCAG  
AGCTCCAGCCAGAGAGTGGCAAGCGAAAACTAGAGGAGGTGCTCTCTACTGAGGGGGCTGAAGAAAAATGGCAACA  
GCGACAAGAAGAAGAAGGCCAAGCGAGACTTAGCAGTCATCCAGACCCCTGCCACCTAGACTGTTTTCTGAGCCC  
TCCGGACCTGAGACTGAGTTTTGTCTTTTTCTTTAGCCTTAGCAGTGGGTATGAGGTGTGAGGGGGAGCTGGG  
TGGCTTCACTCCGCCCATTCCAAAGAGGGCTCTCCCTCCACACTGCAGCCGGGAGCCTCTGCTGTCTTCCCAGC  
CGCCTCTGCTCCTCGGGCTCATCACCGGTTCTGTGCCTGTGCTCTGTTGTGTTGGAGGGAAGGACTGGCGGTTCT  
GGTTTTTACTCTGTGAACTTTATTTAAGGACATTCTTTTTTATTGGCGGCTCCATGGCCCTCGGCCGCTTGCACC  
CGCTCTCTGTTGTACACTTTCAATCAACACTTTTTTCAGACTAAAGGCCAAACCTAAAAAAAAAAAAA

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**FIGURE 682**

MGAYLSQPNTVKCSGDGVGAPRLPLPYGFSAMQGWRVSMEDAHNCIPELDSETAMFSVYDGHGGEEVALYCAKYL  
PDI IKDQKAYKEGKLQKALEDAFLAIDAKLTTEEVIKELAQIAGRPTEDEDEKEKVADEDDVDNEEAALLHEEAT  
MTIEELLTRYGQNCHKGPPHSKSGGGTGEPPGSQGLNGEAGPEDSTRETPSQENGPTAKAYTGFSSNSERGTEAG  
QVGEFGIPTGEAGPSCSSASDKLPRVAKSKFFEDSEDESDEAEEDSEECSEEDGYSSEEAENEDEDDTEE  
AEEDDEEEEEEMVPGMEGKEEPGSDSGTTAVVALIRGKQLIVANAGDSRCVVSEAGKALDMSYDHKPEDEVELA  
RIKNAGGKVTMDGRVNGGLNLSRAIGDHFYKRKNLPPPEQMISALPDIKVLTLLDDHEFMVIACDGIWNVMSSQ  
EVVDFIQSKISQDENGELRLLSSIVEELLDQCLAPDTSGDGTGCDNMTCIICFKPRNTAELQPESGKRKLEEV  
LSTEGAEENGNSDKKKKAKRD

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**FIGURE 683**

CCACTGCCGCTGCCGCCGCTCTCCTTAGTCGCCGGCATGACGACCGCGTCTACCTCGCAGGTGCGCCAGAAGCTT  
GCTGAGAAATTGATGAAGCTGTAGAACCAACGAGGTGGCCGAATCTTCCTTCAGGATATCAAGAAACCAGACTGT  
GCGGGGAGAATGCGATGGGAGAGCGGGCTGAATGCGATGGATTACATTTGGAAAAAATTGTGCATTTTGCATTAC  
ATTTGGAAAAAATGTGAATCAGTCACTACTGGAAGTGCACAACTGGCCACTGACAAAAATGACCCCCATTGT  
GTGACTTCATTGAGACACATTACCTGAATGAACAAGTGAAGGCCATCAAAGAATTGGGTGACCACGTGACCAACA  
TGCACGAGATGGGAGCGCCCGAATCTGGCGTGGCAGAATACCTCTTTGACAAGCACACCCTGGGAGACAGTGATA  
ATGAAAGCTAAGCCTCAGGCTAATTTCCCATAGCCATAGGGTGACTTACCTTGTCACCAAGGCAGCGCATGTAT  
GTTGGGGTTTCCTTTACCTTTTCTATAAGTTGTTCCAAGACACCCACTTAAGTTCTTTGATTGTACCATTTCCTT  
CAAATAAATAAATTTGGTACCC

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**FIGURE 684**

CCCTATCCGGACAGGTGGCTCTTGCCCTTTAGACTACAGTTCCCAGCATGCCAGGCGATTGCGTCCCAGAACCG  
ACGTCCCACCGCCTTCCACATCGGATCGCAGGGCTCCCAAATGGCGAGTGAGGCTGCGGGGACTCGCTGAGCA  
GCGGAGGGGGAGCGTGACAGAGCCGCTGCGGCCCTCACAGTCCGGAGCCCGCCGTGCCGTGCCGTAGGGAACATG

CACTTTTCCATTCCCCGAAACCGAGTCCCGCAGCGGGGACAGCGGCGGCTCCGCCTACGTGGCCTATAACATTAC  
GTGAATGGAGTCCTGCACTGTCGGGTGCGCTACAGCCAGCTCCTGGGGCTGCACGAGCAGCTTCGGAAGGAGTAT  
GGGGCCAATGTGCTTCCTGCATTCCCCCAAAGAAGCTTTTCTCTCTGACTCCTGCTGAGGTAGAACAGAGGAGA  
GAGCAGTTAGAGAAGTACATGCAAGCTGTTTCGGCAAGACCCATTGCTTGGGAGCAGCGAGACTTTCAACAGTTTC  
CTGCGTCGGGCACAACAGGAGACACAGCAGGTCCCCACAGAGGAAGTGTCTTGGAAAGTGCTGCTCAGCAACGGG  
CAGAAAGTTCTGGTCAACGTGCTAACTTCAGATCAGACTGAGGATGTCCTGGAGGCTGTAGCTGCAAAGCTGGAT  
CTTCCAGATGACTTGATTGGATACTTTAGTCTATTCTTAGTTTCGAGAAAAAGAGGATGGAGCCTTTTCTTTTGTA  
CGGAAGTTGCAAGAGTTTGAGCTGCCTTATGTGTCGTGCACAGCCTTCGGAGTCAAGAGTATAAGATTGTGCTA  
AGGAAGAGTTATTGGGACTCTGCCTATGATGACGATGTCATGGAGAACCGGGTTGGCCTGAACCTGCTTTATGCT  
CAGACGGTATCAGATATTGAGCGTGGGTGGATCTTGGTCACCAAGGAACAGCACCGGCAACTCAAATCTCTGCAA  
GAGAAAGTCTCCAAGAAGGAGTTCTTGAGACTGGCCCAGACGCTGCGGCACTATGGCTACTTGCGCTTTGATGCC  
TGTGTGGCTGACTTCCCAGAAAAGGACTGTCTGTGGTGGTGAGCGCGGGCAACAGTGAGCTCAGCCTGCAGCTC  
CGCCTGCCTGGCCAGCAACTCCGAGAAGGCTCCTTCCGGGTACCCGCGATGCGATGCTGGCGGGTCACCTCCTCT  
GTACCATTGCCCAGTGGAAGCACGAGCAGCCAGGCCGGGGCCGGGGTGAGGTGCGCCTGGAACCTGGCTTTTGAA  
TACCTCATGAGCAAGGACCGGCTACAGTGGGTACCATCACTAGCCCCCAGGCTATCATGATGAGCATCTGCTTG  
CAGTCCATGGTTGATGAACTGATGGTGAAGAAAATCTGGCGGCAGTATCAGGAAGATGCTGCGCCGGCGGGTGGGG  
GGTACTCTGAGACGCTCAGACAGCCAGCAAGCAGTGAAGTCCCCACCACTGCTTGAGTCACTGATGCCACCCGG  
GAGTCTATGGTCAAACCTCTCAAGTAAGCTGAGTGCCGTGAGCTTGCGGGGAATTGGCAGTCCCAGCACAGATGCC  
AGTGCCAGTGATGTCCACGGCAATTTGCGCTTCGAGGGCATTGGAGATGAGGATCTGTAATCTCCACTGCTTGGA  
TGTCTGCCCTCTACCCCAGAGGAATTTACAGAACTTGCCCTGTGCCTGTGTCCCCATGCTAGGGGCGGAGGGG  
TCTTTTCCTTCTTCTTTCTTCTACCTACCCCTTTTCTCTTGCCAGGGGCCTCGTATCCTACCTTTCTTGTCCCCT  
GGGCTGGCTGCACAGAGGATTGCCCCCTTCTCTTTTCAGAGCTGGCCCTCGATGCCAAATTAGCATTTAGTATTTT  
GCACAAAGTCTAAGGGACCATGGCTGCCTGCCTTGGGGAGGAACCATAGCTCCCTCTGGGCCGCTTCTGGCCTCT  
TGGAGCCATGGGCCAAAGGCCAAGGGGATGGGCAGAGGTCTGTGTTTGGTCTGGCCAGTTCCCCATCATTAAC  
TCAGCCTGACTGCTGCCT

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**FIGURE 685**

MHFSIPETESRSGDSGG SAYVAYNIHVNGVLHCRVRYSQLLGLHEQLRKEYGANVLPAPFPKKLFSLTPAEVEQR  
REQLEKYMQAVRQDPLLGSSETFNSFLRRAQQETQQVPTEEVSLLEVLLSNGQKVLVNVLTSDQTEDVLEAVAAKL  
DLPDDLIGYFSLFLVREKEDGAFSFVRKLQEFELPYVSVTSLRSQEYKIVLRKSYWDSAYDDDDVMENRVGLNLLY  
AQTVSDIERGWILVTKEQHRQLKSLQEKVSKKEFLRLAQTLRHGYLRFDACVADFPEKDCPVVVSAGNSELSLQ  
LRLPGQQLREGSFRVTRMRCWRVTSSVPLPSGSTSSPGRGRGEVRLELAFEYLMKDRLQWVTITSPQAIMMSIC  
LQSMVDELMVKKSGGSIRKMLRRRVGGTLRRSDSQQAVKSPPLLESPDATRESMVKLSSKLSAVSLRGIGSPSTD  
ASASDVHGNFAFEGIGDEDL

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**FIGURE 686**

GATGGCTGCTGTGGCCGTGGCTGTTCGCGAGGACTCGGGATCCGGGATGAAGGCGGAGCTTCCCCCTGGGCCTGG  
GGCAGTGGGGAGGGAAATGACCAAAGAAGAAAAGCTGCAGCTTCGGAAGGAAAAAGAAACAGCAGAAGAAGAAACG  
GAAGGAAGAAAAGGGGGCAGAACCAGAGACTGGCTCTGCTGTATCTGCAGCCCAATGTCAAGTAGGCCCAACCAG  
AGAAGTCCAGAATCGGGCATTCACTTGGGCACTCCTCGGGAGAAAGTTCCAGCTGGTTCGGAGTAAGGCCGAAGT  
TCGGGCTGAGCGTCGAGCCAAGCAGGAGGCCGAGCGGGCCCTGAAACAGGCAAGAAAAGGGGAACAAGGAGGACC  
ACCTCCTAAGGCCAGCCCCAGCACAGCTGGAGAAACCCCTCAGGAGTGAAGCGTCTCCCTGAGTACCCTCAGGT  
TGATGACCTACTTCTGAGAAGGCTTGTTAAAAAACCAGAGCGTCAACAGGTTCTTACACGAAAGGATTATGGATC  
CAAAGTCAGTCTCTTCTCTCACCTACCCAGTACAGCAGACAAAACCTCTCTGACCCAGTTTATGAGCATCCCATC  
CTCTGTGATCCACCCAGCCATGGTGCAGTCTGGCCTGCAGTACTCCCAGGGCCTGGTCAGTGGCTCCAATGCCCG  
GTGTATTGCCCTGCTTCGTGCCTTGACAGCAGGTGATTGAGGATTACACAACACCGCCTAATGAAGAACTCTCCAG  
GGATCTAGTGAATAAACTAAAACCTACATGAGCTTCCTGACTCAGTGCCGTCCCCTGTCAGCGAGCATGCACAA  
CGCCATCAAGTTCCTTAACAAGGAAATCACCAGTGTGGGCAGTTCCAAGCGGGAAGAGGAGGCCAAGTCAGAACT  
TCGAGCAGCCATTGATCGGTATGTGCAAGAGAAGATTGTGCTAGCAGCTCAGGCAATTTACGCTTTGCTTACCA  
GAAGATCAGTAATGGAGATGTGATCCTGGTATATGGATGCTCATCTCTGGTATCACGAATTTCTCAGGAGGCTTG  
GACAGAGGGCCGGCGGTTTCGGGTGGTAGTGGTGGACAGCCGGCCATGGCTGGAAGGAAGGCACACACTACGTTT  
TCTAGTCCATGCTGGTGTCCCAGCCTCCTACCTGCTGATTCTCTGCAGCCTCCTATGTGCTCCCAGAGGTTTCCAA  
GGTGCTATTGGGAGCTCATGCACTCTTGCCAAACGGGTCTGTGATGTACGGGTAGGGACAGCACAGTTAGCCCT  
GGTGGCTCGAGCCCATAATGTACCAGTGTGGTTTGCTGTGAAACATACAAGTTCTGTGAGCGTGTGCAGACTGA  
TGCCTTTGTCTCTAATGAGCTAGATGACCCTGATGATCTGCAATGTAAGCGGGGAGAACATGTTGCGCTGGCTAA  
CTGGCAGAACCACGCATCCCTACGGTTGTTGAATCTAGTCTATGATGTGACTCCCCAGAGCTTGTGGATCTGGT  
GATCACGGAGCTGGGGATGATCCCTTGAGTTCTGTACCTGTTGTTCTACGAGTCAAGAGCAGTGACCAGTGACG  
GGGGAAACACAGGGTTAATAAATGCCATACTCCCTACCCCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAC

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**FIGURE 687**

MAVAVAVREDSGSGMKAELPPGPAGVGREMTKEEKLQLRKEKKQKKRKEEKGAEPETGSAVSAAQCQVGPTR  
ELPESGIQLGTPREKVPAGRSKAELRAERRAKQEAERALKQARKGEQGGPPPKASPSTAGETPSGVKRLPEYPQV  
DDLLLRRLVKKPERQQVPTRKDYGSKVSLFSLHLPQYSRQNSLTQFMSIPSSVIHPAMVRLGLQYSQGLVSGSNAR  
CIALLRALQQVIQDYTPPNEELSRDLVNKLKPYMSFLTQCRPLSASMHNAIKFLNKEITSVGSSKREEEAKSEL  
RAAIDRYVQEKIVLAAQAISRFAIQKISNGDVILVYGCSLVSRLQEAWTEGRRFRVVVDSRPWLEGRHTLRS  
LVHAGVPASYLLIPAASYVLPEVSKVLLGAHALLANGSVMSRVGTAQLALVARAHNPVVLVCCETYKFCERVQTD  
AFVSNELDDPDDLQCKRGEHVALANWQNHASLRLLNLVYDVTPPELVDLVITELGMIPCSSVPVVLRVKSSDQ



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**FIGURE 688**

AGGACTTTGGCGAGGGGGCAGCCATTTTGGGGGGTGCTGATGGATACCTGCGGGGTCGGCTATGTTGCCCTGGGG  
GAGGCCGGCCCCGTGGGGAACATGACTGTGGTAGACTCTCCTGGACAAGAGGTGCTAAATCAGCTTGATGTCAAG  
ACCTCTTCAGAAATGACCAGTGCAGAGGCTTCCGTAGAGATGTCAATTACCTACCCCTTTGCGCTGGATTTGAGGAT  
TCTCCTGATCAGAGGAGGCTCCCTCCAGAGCAGGAAAGCCTCTCCAGACTGGAACAGCCAGATCTTTCTTCAGAG  
ATGTCAAAGGTCTCAAAGCCTAGGGCCTCAAAGCCTGGCCGGAAGAGAGGTGGTAGGACACGAAAAGGCCCCAAA  
AGGCCCCAACAGCCTAATCCTCCATCAGCCCCACTGGTTCTCTGGTCTCTTAGATCAATCCAACCCTCTGTCCACC  
CCCATGCTAAGAAACGAGGTCGAAAGTCCAAGGCAGAGCTGCTGCTGCTGAAGTTGTCAAAGACCTAGATCGG  
CCAGAATCTCAATCTCCAAAGAGGCCCTGAGGACTTTGAGACCCCTTCTGGGGAACGACCCCGCCGAAGGGCT  
GCCCAAGTGGCACTTCTGTATCTTCAGGAAGTGGCTGAAGAGCTCTCAACAGCCCTGCCTGCCCTGTGTCTCTGT  
CCTGAGGGCCCCAAGGTGAGCAGCCCCACCAACCGAAGAAGATCCGGCAGCCAGCAGCCTGTCCAGGTGGAGAA  
GAGGTGGATGGTGCTCCACGGGATGAAGACTTTTTTCTCCAGGTTGAGGCTGAAGATGTGGAAGAAAGTGAGGGC  
CCAAGTGAGAGCTCATCTGAACCTGAGCCTGTAGTGCCCCGAAGCAGCCACGAGGATCTACTTCAGGGAAACAG  
AAACCACACTGCCGAGGAATGGCTCCCAATGGCTTACCAATCATATCATGGCTCCTGTTTGGAAGTGCCTCCAT  
CTCACCAAGGACTTCCGAGAGCAGAAACATTCATACTGGGAGTTTGCTGAGTGGATTCTTTAGCCTGGAAGTGG  
CACTTGTTATCTGAGCTTGAGGCCGCTCCCTACCTGCCCCAGGAGGAGAAGTCTCCATTGTTTTCTGTACAACGT  
GAAGGGCTACCTGAAGATGGCACCCCTCTACCGAATAAACAGATTTAGCTCGATCACAGCACATCCAGAGCGCTGG  
GATGTGTCCTTCTTACGGGGGGACCGCTCTGGGCTCTGGACTGGTGCCAGTGCCAGAGGGGGCAGGAGCCTCG  
CAATATGTGGCTCTTTTCTCCAGCCCTGACATGAATGAGACACACCCACTGAGCCAGCTTCATTGCGGTCTCTGGG  
CTGCTCCAGCTCTGGGGCCTTGGGACCTTGCAGCAAGAAAGCTGTCTGGCAACAGGGGCCACTTTGTCTATGGG  
ATTGCTTGTGACAACGGCTGCATCTGGGACCTCAAGTTCTGCCCCAGTGGAGCATGGGAACCTCCAGGCACCCCT  
CGGAAGGCTCCTCTCCTGCCCGGTTGGGTCTCTTGGCTCTGGCCTGCTCAGACGGGAAAGTACTGCTATTAGT  
CTACCCCATCCGGAGGCCCTGCTGGCTCAGCAACCCCCAGATGCAGTGAAGCCTGCCATATATAAGGTACAATGT  
GTGGCAACTCTGCAGGTGGGGTCTATGCAAGCTACAGACCCCTCTGAGTGTGGTCAGTGCCTTAGCCTGGCCTGG  
ATGCCTACCAGGCCCCACCAACACCTAGCTGCTGGATATTATAATGGCATGGTGGTTTTCTGGAACCTTCCCACT  
AACTCACCCCTGCAGCGGATACGGCTCTCTGATGGCTCCTTAAAGCTCTACCCCTTCCAGTGTTCCTAGCCAT  
GACCAGGCTGTGCGTACCCTTCAATGGTGCAAAGCTAACAGCCATTTCTTGTCTCTGCGGGGAGTGACCGGAAA  
ATCAAATCTGGGACCTTCGACGTCTTACGAACCCATAAACTCTATCAAGCGCTTCTTGAGTACAGAAGTGGCC  
TGGCTGCTTCCCTACAATGGTGTCACTGTGGCTCAGGACAAGTCTATGCCTCTTATGGACTCTGTGGGATTCTAT  
TATATTGACGCTGGTTACCTTGGTTTCAAGGCCTACTTCACTGCTCCTCGAAAAGGCACCGTTTGGAGTCTTTCA  
GGATCCGACTGGCTTGGGACAATAGCTGCAGGAGATATATCCGGGGAGCTCATTGCTGCTATATTACCAGATATG  
GCACTGAATCCAATAAATGTCAAGCGACCTGTAGAGCGAAGATTTCTATATATAAAGCAGATCTGATACCGTAT  
CAGGACAGTCTGAAGGTCCAGACCATTTCTTCTGCTTCATCTGGGGTCCCCAACCCCTCCCAAGGCTCGAAGTTAC  
ACTGAAACTGTCAACCATCACTACTTGTCTTTTCAAGACACAGATTTGGGTTTCAATCCATGATCTGCTCCGTAGA  
GAACCAATGCTGCGCATGCAGGAGGGAGAGGGGCATTCTCAACTCTGCCTGGACAGGCTGCAGCTGGAGGCTATT  
CATAAGGTACGTTTCAGCCCAAACCTGGACTCCTATGGATGGCTGGTATCTGGGGGGCAGTCAGGGCTGGTTTGA  
ATCCATTTTGTCCGTGGACTCGCCTCCCCACTGGGCCACCGTATGCAGCTTGAAAGCCGAGCCCACTTCAATGCT  
ATGTTCCAACCATCCTCCCCACTAGACGGCCTGGCTTCTCTCCAACCAGCCATCGCCTTCTGCCCCACTCCCTTAG

CCTTGGCCACACCAGATCCTTGGAGTGAAGTCGGTCAAGAACAAATGGCCCTATGCACAGAGCCATAGGAAGT  
GGGGGCCTTCCCTGGACAGTGATCATGCCAGGCCTGGACCTTTAGGCCTGCCTCCCCAGGACTCCTTAGATCCCA  
CTCTTTCTACAGACTTCTGTGATCACAGCCCCCTGCGGGCAGGGGGGCTCTCCCTCCACCAACTCTCAAGGCTCC  
TCAGCCTAAGACTATGGCTCATGAGAAACACTCAGGCCTGACCTAGGCTTGGGAGTCAAAGTCTCATATTGAGC  
ATATTGTTAAGTGGGTAAAGCCAAGTAAAGGTACTGGGTGTTTTTGTGACCACTTGTGAATGGGTGTATGGAGAA  
CTGAAAAGGGTATCTGCATGAAGGCTCCTGTCTGACTATTCCAGGATCCAATATTACTGCCTTCTGAACTTCTCT  
CTTTAGGGTAACCATCATGTATGCCACGAGGGTGATAGTAATTCGTGAGACTGAAGTTGCTTAGAGTACTTCTT  
TGACCAAGGAATACCACAGACACCCTACCGATAGAACAGTGGCTCAGATCTTACTTGCTCCTGCTTACGAAGTAT  
TCCCAATCACTGGTCACTGACCCCTACTTGAACACTCCTGAACAGTCATGTTTTTAAATCTTCTTTATATCA  
AGTCAGAGAGTATACTTCTATAAATTCATCTCATGGATGTTAGGAAATCTAGTCATCTTCCCTGTGATTGCCCTG  
TTAAGTATTTAACCATAGCTATCATGTGTTTCCCAATCTTCTCTAGATTAAATATCTTCAGTTACTTC

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**FIGURE 689**

MDTCGVGYVALGEAGPVGNMTVVDSPGQEVNLQLDVKTSSSEMTSAEASVEMSLPTPLPGFEDSPDQRRLPPEQES  
LSRLEQPDLSSEMSKVSKPRASKPGRKRGGRTKGPGRPQQPNPPSAPLVPGLLDQSNPLSTPMPKKRGRKSKAE  
LLLLKLSKDLDREPESQSPKRPPEDFETPSGERPRRRAAQVALLYLQELAEELSTALPAPVSCPEGPKVSSPTKPK  
KIRQPAACPGGEEVDGAPRDEDFFLQVEAEDVEESEGPSESSEPEPVVPRSTPRGSTSGKQKPHCRGMAPNGLP  
NHIMAPVWKCLHLTKDFREQKHSYWEFAEWIPLAWKWHLLSELEAAPYLPQEEKSPLFSVQREGLPEDGTLYRIN  
RFSSITAHPERWDVSFFTGGPLWALDWCPVPEGAGASQYVALFSSPDMNETHPLSQLHSGPGLLQLWGLGTLQQE  
SCPGNRAHFVYGIACDNGCIWDLKFCPSGAWELPGTPRKAPLLPRLGLLALACSDGKVLLFSLPHPEALLAQPP  
DAVKPAIYKVQCVATLQVGSMQATDPSECGQCLSLAWMPTRPHQHLAAGYYNGMVVFWNLPTNSPLQIRLSDGS  
LKLYPFQCFLAHDQAVRTLQWCKANSHFLVSAGSDRKIKFWDLRRPYEPINSIKRFLSTELAWLLPYNGVTVAQD  
NCYASYGLCGIHYIDAGYLGFKAYFTAPRKGTVWSLSGSDWLGTIAAGDISGELIAAILPDMALNPINVKRPVER  
RFPIYKADLIPYQDSPEGPDHSSASSGVNPPKARTYTETVNHYYLLFQDIDLGSFHDLLRREPMLRMQEGEGHS  
QLCLDRLQLEAIIHKVRFSPNLDSYGWLVSQGLVRIHFVRGLASPLGHRMQLESRAHFNAMEFQSSPTRRPGF  
SPTSHRLPTP

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**FIGURE 690**

GAGGGACGGTGGGGGTGACCCCCTCTCCTCTTGGCTTGACAGGAAGCATGGCACTCTGGCGGGCATACCAGCGGG  
CCCTGGCCGCTCACCCGTGGAAAGTACAGGTCCTGACAGCTGGGTCCCTGATGGGCCTGGGTGACATTATCTCAC  
AGCAGCTGGTGGAGAGGCGGGGTCTGCAGGAACACCAGAGAGGCCGGACTCTGACCATGGTGTCCCTGGGCTGTG  
GCTTTGTGGGCCCTGTGGTAGGAGGCTGGTACAAGGTTTTGGATCGGTTTCATCCCTGGCACCACCAAAGTGGATG  
CACTGAAGAAGATGTTGTTGGATCAGGGGGGCTTTGCCCCGTGTTTTCTAGGCTGCTTTCTCCCACTGGTAGGGG  
CACTTAATGGACTGTCAGCCCAGGACAACCTGGGCCAACTACAGCGGGATTATCCTGATGCCCTTATCACCAACT  
ACTATCTATGGCCTGCTGTGCAGTTAGCCAACCTTCTACCTGGTCCCCCTTCATTACAGGTTGGCCGTTGTCCAAT  
GTGTTGCTGTTATCTGGAACCTCCTACCTGTCCTGGAAGGCACATCGGCTCTAAGCCTGCCTCACTCCATCGTTTC  
CACCTTGCAGTGATGCAGCTTGACCCTGGAACGGTCAGACAACCTCCTCAAAGTGGGCATACCAGTTTCCACGGG  
GTTGGGTTGCCGGTCAGAGCTTAAGAGGACTAGCACCCTGCAATGCCCCCTCTTCACTCTAAAATGTACACTGACT  
GCTTTAGAGCCCTTGATAATAGTCTTATTCCCACCACATACTAGGCACTCCATAAATATCTGTTGAACCTTCATG  
ACCTTATCAACTTTACACCCATATCCCAGCAAATGCCACTCATCCCCACTCTTCATAGACACATTTGTTACTCTA  
ACCCTGCCTAGGCTTCTTGTAGCTCCAGCTCTTTAGAGACTCCCGGAACCCTTTATATGGTGCCTCAGTAAATAT  
GTTATTAAATATGTAATCCGG

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**FIGURE 691**

MALWRAYQRALAAHPWKVQVLTAGSLMGLGDIISQQLVERRGLQEHQRGRTLTMVSLGCGFVGFVVGWYKVLDR  
FIPGTTKVDALKKMLLDQGGFAPCFLGCFLLPLVGALNGLSAQDNWAKLQRDYPDALITNYLWPAVQLANFYLP  
LHYRLAVVQCVAVIWNSYLSWKAHRL

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**FIGURE 692A**

CGCCCCCGCCTCTGAGCTCCCTTCCCATGGCGGCCCTAGTGTGGAGGACGGGTCCGTCTGCGGGGCCAGCCCT  
TTGGGGCCCGCGTGTGCGACTGCCGGGGAAGTGGTGTTCAAACCGGCATGGTCGGCTACCCCGAGGCCCTCACTG  
ATCCCTCCTACAAGGCACAGATCTTAGTGCTCACCTATCCTCTGATCGGCAACTATGGCATCCCCCAGATGAAA  
TGGATGAGTTCCGGTCTCTGCAAGTGGTTTGAATCCTCGGGCATCCACGTAGCAGCACTGGTAGTGGGAGAGTGT  
GTCCTACTCCCAGCCACTGGAGTGCCACCCGCACCCTGCATGAGTGGCTGCAGCAGCATGGCATCCCTGGCTTGC  
AAGGAGTAGACACTCGGGAGCTGACCAAGAAGTTGCGGGAACAGGGGTCTCTGCTGGGGAAGCTGGTCCAGAATG  
GAACAGAACCTTCATCCCTGCCATTCTTGGACCCCAATGCCCGCCCCCTGGTACCAGAGGTCTCCATTAAAGACTC  
CACGGGTATTCAATACAGGGGGTGCCCCCTCGGATCCTTGCTTTGGACTGTGGCCTCAAGTATAATCAGATCCGAT  
GCCTCTGCCAGCGTGGGGCTGAGGTCACTGTGGTACCCTGGGACCATGCCTAGACAGCCAAGAGTATGAGGGTC  
TCTTCTTAAGTAATGGGCCTGGTGACCCTGCCTCCTATCCCAGTGTCTATCCACACTGAGCCGTGTTTTATCTG  
AGCCTAATCCCCGACCTGTCTTTGGGATCTGCCTGGGACACCAGCTATTGGCCTTAGCCATTGGGGCCAAGACTT  
ACAAGATGAGATATGGGAACCGAGGCCATAACCAGCCCTGCTTGTGGTGGGCTCTGGGCGCTGCTTTCTGACAT  
CCCAGAACCATGGGTTTGTCTGTGGAGACAGACTCACTGCCAGCAGACTGGGCTCCTCTCTTACCAACGCCAATG  
ATGGTTCCAATGAAGGCATTGTGCACAACAGCTTGCCCTTCTTCAGTGTCCAGTTTCACCCAGAGCACCAAGCTG  
GCCCTTCAGATATGGAAGTGTCTTTTCGATATCTTTCTGGAAGTGTGAAAGAGGGCCACAGCTGGGAACCCCTGGGG  
GCCAGACAGTTAGAGAGCGGCTGACTGAGCGCCTCTGTCCCCCTGGGATTCCCACTCCCGGCTCTGGACTCCAC  
CACCACGAAAGGTTCTGATCCTGGGCTCAGGGGGCCTCTCCATTGGCCAAGCTGGAGAATTTGACTACTCGGGCT  
CTCAGGCAATTAAGGCCCTGAAGGAGGAAAACATCCAGACGTTGCTGATCAACCCCAATATTGCCACAGTGCAGA  
CCTCCCAGGGGCTGGCCGACAAGGTCTATTTTCTTCCCATACACCTCATTATGTAACCCAGGTGATACGTAATG  
AACGCCCCGATGGTGTGTTACTGACTTTTGGGGGCCAGACTGCTCTGAAGTGTGGTGTGGAGCTGACCAAGGCCG  
GGGTGCTGGCTCGGTATGGGGTCCGGGTCTGGGCACACCAGTGGAGACCATTGAGCTGACCGAGGATCGACGGG  
CCTTTGCTGCCAGAATGGCAGAGATCGGAGAGCATGTGGCCCCGAGCGAGGCAGCAAATTCTCTTGAACAGGCC  
AGGCAGCCGCTGAACGGCTGGGGTACCCTGTGCTAGTGCCTGCAGCCTTTGCCCTGGGTGGCCTGGGCTCTGGCT  
TTGCCCTAACAGGGAGGAGCTCTCTGCTCTCGTGGCCCCAGCTTTTGCCCATACCAGCCAAGTGTAGTAGACA  
AGTCTCTGAAGGGATGGAAGGAGATTGAGTACGAGGTGGTGAGAGACGCCTATGGCAACTGTGTACGGTGTGTA  
ACATGGAGAACTTGGACCCACTGGGCATCCACACTGGTGAGTCCATAGTGGTGGCCCTAGCCAGACACTGAATG  
ACAGGGAGTATCAGCTCCTGAGGCAGACAGCTATCAAGGTGACCCAGCACCTGGGAATTGTTGGGGAGTGCAATG  
TGCAGTATGCCTTGAACCTGAGTCTGAGCAGTATTACATCATTGAAGTGAATGCCAGGCTCTCTCGCAGCTCTG  
CCCTGGCCAGTAAGGCCACAGGTTATCCACTGGCTTATGTGGCAGCCAAGCTAGCATTGGGCATCCCTTTGCCTG  
AGCTCAGGAACCTCTGTGACAGGGGTACAGCAGCCTTTGAACCCAGCGTGGATTATTGTGTGGTGAAGATTCCTC  
GATGGGACCTTAGCAAGTTCTGCGAGTCAGCACAAAGATTGGGAGCTGCATGAAGAGCGTTGGTGAAGTCATGG  
GCATTGGGCGTTTATTGAGGAGGCCTTCCAGAAGGCCCTGCGCATGGTGGATGAGAAGTGTGTGGGCTTTGATC  
ACACAGTGAAACCAGTCAGCGATATGGAGTTGGAGACTCCAACAGATAAGCGGATTTTTGTGGTGGCAGCTGCTT  
TGTGGGCTGGTTATTTCAGTGGACCGCCTGTATGAGCTCACACGCATCGACCGCTGGTTCTGACCCGAATGAAGC  
GTATCATCGCACATGCCAGCTGCTAGAACAACACCGTGGACAGCCTTTGCCGCCAGACCTGCTGCAACAGGCCA  
AGTGTCTTGGCTTCTCAGACAAACAGATTGCCCTTGCAGTTCTGAGCACAGAGCTGGCTGTTTCGAAGCTGCGTC  
AGGAACTGGGGATCTGTCCAGCAGTGAAACAGATTGACACAGTTGCAGCTGAGTGGCCAGCCAGACAAATTACC  
TATACCTAACGTATTGGGGCACCACCCATGACCTCACCTTTCGAACACCTCATGTCCTAGTCTTGGCTCTGGCG  
TCTACCGTATTGGCTCTAGCGTTGAATTTGACTGGTGTGCTGTAGGCTGCATCCAGCAGCTCCGAAAGATGGGAT  
ATAAGACCATCATGGTGAACATAAACCAGAGACAGTCAGCACCGACTATGACATGTGTGATCGACTCTACTTG  
ATGAGATCTCTTTTGGAGGTGGTGATGGACATCTATGAGCTCGAGAACCCTGAAGGTGTGATCCTATCCATGGGTG  
GACAGCTGCCCAACAACATGGCCATGGCGTTGCATCGGCAGCAGTGCCGGGTGCTGGGCACCTCCCCTGAAGCCA  
TTGACTCGGCTGAGAACCCTTTCAAGTTTTCCCGGCTCCTTGACACCATTTGGTATCAGCCAGCCTCAGTGGAGGG  
AGCTCAGTGACCTCGAGTCTGCTCGCCAATTCTGCCAGACCGTGGGGTACCCCTGTGTGGTGCGCCCTCCTATG  
TGCTGAGCGGTGCTGCTATGAATGTGGCTACACGGATGGAGACCTGGAGCGCTTCTGAGCAGCGCAGCAGCCG  
TCTCCAAAGAGCATCCCGTGGTCATCTCCAAGTTCATCCAGGAGGCTAAGGAGATTGACGTGGATGCCGTGGCCT  
CTGATGGTGTGGTGGCAGCCATCGCCATCTCTGAGCATGTGGAGAATGCAGGTGTGCATTACAGGTGATGCGACGC  
TGGTGACCCCCCACAAGATATCACTGCCAAAACCTGGAGCGGATCAAAGCCATTGTGCATGCTGTGGGCCAGG

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**FIGURE 692B**

AGCTACAGGTCACAGGACCCCTTCAATCTGCAGCTCATTGCCAAGGATGACCAGCTGAAAGTTATTGAATGCAACG  
TACGTGTCTCTCGCTCCTTCCCCTTCGTTTCCAAGACACTGGGTGTGGACCTAGTAGCCTTGGCCACGCGGTCA  
TCATGGGGGAAGAAGTGAACCTGTGGGGCTAATGACTGGTTCTGGAGTCGTGGGAGTAAAGGTGCCTCAGTTCT  
CCTTCTCCCGCTTGGCGGGTGTGACGTGGTGTGGGTGTGGAAATGACCAGTACTGGGGAGGTGGCCGGCTTTG  
GGGAGAGCCGCTGTGAGGCATACCTCAAGGCCATGCTAAGCACTGGCTTTAAGATCCCCAAGAAGAATATCCTGC  
TGACCATTGGCAGCTATAAGAACAAAAGCGAGCTGCTCCCAACTGTGCGGCTACTGGAGAGCCTGGGCTACAGCC  
TCTATGCCAGTCTCGGCACAGCTGACTTCTACACTGAGCATGGCGTCAAGGTAACAGCTGTGGACTGGCACTTTG  
AGGAGGCTGTGGATGGTGAGTGCCACCACAGCGGAGCATCCTGGAGCAGCTAGCTGAGAAAACTTTGAGCTGG  
TGATTAACCTGTCAATGCGTGGAGCTGGGGGCCGGCGTCTCTTCTTCTTGTACCAAGGGCTACCGCACCCGAC  
GCTTGGCCGCTGACTTCTCCGTGCCCCAATCATCGATATCAAGTGCACCAAACTCTTTGTGGAGGCCCTAGGCC  
AGATCGGGCCAGCCCCCTCTTTGAAGGTGCATGTTGACTGTATGACCTCCCCAAAAGCTTGTGCGACTGCCGGGAT  
TGATTGATGTCCATGTGCACCTGCGGGAACCAGGTGGGACACATAAGGAGGACTTTGCTTCAGGCACAGCCGCTG  
CCCTGGCTGGGGGTATCACCATGGTGTGTGCCAIGCCTAATACCCGGCCCCCATCATTGACGCCCTGCTCTGG  
CCCTGGCCCGAAGCTGGCAGAGGCTGGCGCCCGGTGCGACTTTGCGCTATTCTTGGGGCCTCGTCTGAAAATG  
CAGGAACCTTGGGCACCGTGCCGGGTCTGCAGCCGGGTGAAGCTTTACCTCAATGAGACCTTCTCTGAGCTGC  
GGCTGGACAGCGTGGTCCAGTGGATGGAGCATTTTCGAGACATGGCCCTCCCACCTCCCCATTGTGGCTCACGCAG  
AGCAGCAAACCGTGCTGTCTCATGGTGGCTCAGCTCACTCAGCGCTCAGTGCACATATGTACGTGGCAC  
GGAAGGAGGAGATCCTGCTAATTAAAGCTGCAAAGGCACGGGGCTTGCCAGTGACCTGCGAGGTGGCTCCCCACC  
ACCTGTTCTTAAGCCATGATGACCTGGAGCGCTGGGGCCTGGGAAGGGGGAGGTCCGGCCTGAGCTTGGCTCCC  
GCCAGGATGTGGAAGCCCTGTGGGAGAACATGGCTGTCTGACTGCTTTGCCCTCAGACCATGCTCCCCATACCT  
TGGAGGAGAAGTGTGGGTCCAGGCCCCACCTGGGTTCAGGGTTAGAGACCATGCTGCCACTACTCCTGACGG  
CTGTAAGCGAGGGCCGGCTCAGCCTGGACGACCTGCTGCAGCGATTGCACCACAATCCTCGGCGCATCTTTCACC  
TGCCCCCGCAGGAGGACACCTATGTGGAGGTGGATCTGGAGCATGAGTGGACAATCCCAGCCACATGCCCTTCT  
CCAAGGCCCACTGGACACCTTTTGAAGGGCAGAAAGTGAAGGGCACCGTCCGCCGTGTGGTCTGCGAGGGGAGG  
TTGCCTATATCGATGGGCAGGTTCTGGTACCCCCGGGCTATGGACAGGATGTACGGAAGTGGCCACAGGGGGCTG  
TTCTCAGCTCCCACCCTCAGCCCCGCCACTAGTGAGATGACCACGACACCTGAAAGACCCCGCCGTGGCATCC  
CAGGGCTTCTGATGGCCGCTTCCATCTGCCGCCCGAATCCATCGAGCCTCCGACCCAGGTTTGCCAGCTGAGG  
AGCCAAAGGAGAAGTCTCTCGGAAGGTAGCCGAGCCAGAGCTGATGGGAACCCCTGATGGCACCTGCTACCCTC  
CACCACAGTACCGAGACAGGCATCTCCCCAGAACCTGGGGACCCCTGGCTTGTGACCCCCAGACCTCACCCC  
TGCTGCACTCATTAGTGGGCCAACATATCCTGTCCGTCCAGCAGTTACCAAGGATCAGATGTCTCACCTGTTCA  
ATGTGGCACACACACTGCGTATGATGGTGCAGAAGGAGCGGAGCCTCGACATCCTGAAGGGGAAGGTCATGGCCT  
CCATGTTCTATGAAGTGAGCACACGGACCAGCAGCTCCTTTGCAGCAGCCATGGCCCGGTGGGAGGTGCTGTGC  
TCAGCTTCTCGGAAGCCACATCGTCCGTCCAGAAGGGCGAATCCCTGGCTGACTCCGTGCAGACCATGAGCTGCT  
ATGCCGACGTCGTGCTCGGCACCCCCAGCCTGGAGCAGTGGAGCTGGCCGCCAAGCACTGCCGGAGGCCAG  
TGATCAATGCTGGGGATGGGGTCCGAGAGCACCCCCACCCAGGCCCTGCTGGACATCTTACCATCCGTGAGGAGC  
TGGGAACTGTCAATGGCATGACGATCACGATGGTGGGTGACCTGAAGCACGGACGCACAGTACATTCCCTGGCCT  
GCCTGCTCACCCAGTATCGTGTACGCTGCGCTACGTGGCACCTCCCAGCCTGCGCATGCCACCCACTGTGCGGG  
CCTTCGTGGCCTCCCGCGGCACCAAGCAGGAGGAATTCGAGAGCATTGAGGAGGCGCTGCCTGACACTGATGTGC  
TCTACATGACTCGAATCCAGAAGGAACGATTTGGCTCTACCCAGGAGTACGAAGCTTGCTTTGGTCAGTTTCATCC  
TCACTCCCCACATCATGACCCGGGCCAAGAAGAAGATGGTGGTGATGCACCCGATGCCCCGTGTCAACGAGATAA  
GCGTGGAAGTGGACTCGGATCCCCGCGCAGCCTACTTCCGCCAGGCTGAGAACGGCATGTACATCCGCATGGCTC  
TGTTAGCCACCGTGTGGGGCGTTTCTAGGGGCTGGCTTCCTCAGCCTCTTCTTTAGGCCAGCTGCTGGGC  
AAGGAATCCAGTGCCTCCTACGGGGGCAGCACACTTAGATATTCCTGGACATCCAGATTGCTCACATGTGCTGA  
CCACACTTCAGGCTCTGGACTGGAGCTCTCTGGCATGGGGGTGGGGCCTCAGATGCTGGGGCCAGTCTGCCCCA  
TCTTCATTCTGCACCTTAAACCTGTACAGTCATTTTCTACTGACTTAATAAACAGCCGAGCTGTCCCTTG

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**FIGURE 693**

MAALVLEDGSLVRGQPFGA AVSTAGEVVFQ TGMVGYPEALTDP SYKAQILVLTYPLIGNYGIPPDEMDEFGLCKW  
FESSGIHVAALVVGECCTP SHWSATRTLHEWLQOHGIPGLQGVD TRELTKKLREQGSLLGKLVQNGTEPSSLPF  
LDPNARPLVPEVSIKTPRVFNTGGAPRILALDCGLKYNQIRCLCQRGA EVTVVPWDHALDSQEYEGFLFLSNGPGD  
PASYP SVVSTLSRVLSEPNRPVFGICLGHQLLALAIGAKTYKMRYGNRGHNQPCLLVGSGRCFLT SQNHGFAVE  
TDSL PADWAPLFTNANDGSNEGIVHNSLPFFSVQFHPEHQAGPSDMELLFDIFLETVKEATAGNPGGQTVRERLT  
ERLCPPGIPTPGSGLPPPRKVLILGSGGLSIGQAGEFDYSGSQAIKALKEENIQ TLLINPNIA TVQTSQGLADKV  
YFLPITPHYVTQVIRNERPDGVLLTFGGQTALNCGVELTKAGVLARYGVRVLGTPVETIELTEDRRAFAARMAEI  
GEHVAPSEAANSLEQAQAAAERLGYPVLVRAAFALGGLSGGFASNREELSALVAPAFHA TSQVLVDKSLKGWKEI  
EYEVVRDAYGNCVTVCNMENLDPLGIHTGESIVVAPSQT LNDREYQLLRQTAIKVTQHLGIVGECNVQYALNPES  
EQYYII EVNARLSRSSALASKATGYPLAYVA AKLALGIPLPELRNSVTGGTAAFEPSVDYCVVKIPRWDLSKFLR  
VSTKIGSCMKSVGEVMGIGRSFEEAFQKALRMVDENC VGF DHTVKPVSDMELETPTDKRIFVVAALWAGYSVDR  
LYELTRIDRWFLHRMKRIIAHAQ LLEQHRGQPLPPDLLQQA KCLGFSDKQIALAVLSTELAVRKL RQELGICPAV  
KQIDTVAAEWPAQTNYLYLTYWGTT HDLTFRTPHVLVLGSGVYRIGSSVEFDWCAVGCIQQLRKMGYKTIMVNYN  
PETVSTDYDMCDRLYFDEISFEVVM DIYELENPEGVILSMGGQLPNNMAMALHRQQCRVLGTSPEAIDSAENRFK  
FSRLLDTIGISQPQWRELSDESARQFCQTVGYPCVVRPSYVL SGAAMNVAYTDGDLERFLSSAAAVSKEHPVVI  
SKFIQEAKEIDVDAVASDGVVAAIAISEHVENAGVHSGDATLVT PPQDITAKTLERIKAIHVAVGQELQVTGPFN  
LQLIAKDDQLKVI ECNVRVRSRSPFVSKTLGVDLVALATRVIMGEEVEPVGLMTGSGVVGKVPQFSF SRLAGAD  
VVLGVEMTSTGEVAGFGESRCEAYLKAMLSTGFKIPKKNILLTIGSYKNKSELLPTVRLL ES LGYSLYASLGTA D  
FYTEHGVKVTAVDWHFEEAVDGECPQRSILEQLAEKNFELVINLSMRGAGGRRLSSFVTKG YRTRRLAADFSVP  
LIIDIKCTKLFVEALGQIGPAPPLKVHVDCMTSQKLVR LPLGLIDVHVHLREPGGTHKEDFASGTAAALAGGITMV  
CAMPNTRPPIIDAPALALAQKLA EAGARCDFALFLGASSENAGTLGTVAGSAAGLKLYLNETFSELRLDSVVQWM  
EHFETWPSHLP IVAHAEQQTVA AVLMAQLTQRSVHICHVARKEEILLIKA AKARGLPVTCEVAPHHLFLSHDDL  
ERLGP GKGEVRPELGS RQDVEALWENMAVIDCFASDHAPHTLEEKCGSRPPPGFPGLETMLPLLLTAVSEGRLSL  
DDLQRLHNNPRRIFHLPPQEDTYVEVDLEHEWTIP SHMPFSKAHWTPFEGQKVKGTVRRVVL RGEVAYIDGQVL  
VPPGYQDVRKWPQGA VPQLPPSAPATSEMTTTPERPRRGIPGLPDGRFHLPPRIHRASDPGLPAEEPKEKSSRK  
VAEPELMGTPDGTICYP PVPVRQASPNLGTPL LHPQTSPLLHSLVGQHILSVQQFTKDQMSHLFNVAHTLRMM  
VQKERSLDILKGKVMASMFYEVSTR TSSSFAAAMARLGGA VLSFSEATSSVQKGESLADSVQTMSCYADVVL RH  
PQPGAVELAAKHCRPVINAGDGVGEHPTQALLDIFTIREELGTVNGMTITMVGDLKHGRTVHSLACLLTQYRVS  
LRYVAPPSLRMPPTVRAFVASRGTKQEEFESIEEALPD TDVLYMTRI QKERFGSTQEY EACFGQFILT PHIMTRA  
KKKMVMHMPMRVNEISVEVDS DPRAAYFRQAENGM YIRMA LLATV LGRF

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**FIGURE 694**

GGAGCACCAAGGGAACGGAAAAATGGCGCCTCACGGCCCGGGTAGTCTTACGACCCTGGTGCCCTGGGCTGCCGCC  
CTGCTCCTCGCTCTGGGCGTGGAAGGGCTCTGGCGCTACCCGAGGTACAGAAGCAAGTTTGAGGTCGGGCTGAA  
GCAGGGTCACTGGCCAGCCGTGCGTCGCGCTCGCCAGCGGCTCCCCCTTCTCCTCGGCGGGCCTGCGGTTCTGAT  
TTCGTCCCTGACGCTTCCCGACCCTGCCAGCCAGATATGCACCCAATGTCCAGGGAGCGTGCAAAATTTGTCAA  
AAGTGGCCTTTTATTGTAAAACGACACGAGAGCTAATGCTGCATGCCCCGTGCTGCCTGAATCAGAAGGGCACCA  
TCTTGGGGCTGGATCTCCAGAACTGTTCTCTGGAGGACCCTGGTCCAACTTTCATCAGGCACATACCACTGTCA  
TCATAGACCTGCAAGCAAACCCCTCAAAGGTGACTTGGCCAACACCTTCCGTGGCTTTAÇTCAGCTCCAGACTC  
TGATACTGCCACAACATGTCAACTGTCCTGGAGGAATTAATGCCTGGAATACTATCACCTCTTATATAGACAACC  
AAATCTGTCAAGGGCAAAAGAACCCTTTGCAATAACACTGGGGACCCAGAAATGTGTCCTGAGAATGGATCTTG  
TACCTGATGGTCCAGGTCTTTTGCAGTGTGTTTGTGCTGATGGTTTCCATGGATACAAGTGTATGCGCCAGGGCT  
CGTTCTCACTGCTTATGTTCTTCGGGATTCTGGGAGCCACCACTCTATCCGTCTCCATTCTGCTTTGGGCGACCC  
AGCGCCGAAAAGCCAAGACTTCA~~TGA~~ACTACATAGGTCTTACCATTGACCTAAGATCAATCTGAACTATCTTAGC  
CCAGTCAGGGAGCTCTGCTTCCTAGAAAGGCATCTTTCGCCAGTGGATTGCGCTCAAGGTTGAGGCCGCCATTGG  
AAGATGAAAAATTGCACTCCCTTGGTGTAGACAAATACCAGTTCCCATTGGTGTGTTGCCTATAATAAACACTT  
TTTCTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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**FIGURE 695**

MLHARCCLNQGKGTILGLDLQNCSEDPGPNFHQAHTTVIIDLQANPLKGDLANTRGFTQLQTLILPQHVNCPPG  
INAWNTITSYIDNQICQGQKNLCNNTGDPMECPENGSCVPDGPGLLQCVCADGFHGYKCMRQGSFSLMFFGILG  
ATTLSVSILLWATQRRKAKTS

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**FIGURE 696**

GGAGCACCAAGGGAACGGAATAATGGCGCCTCACGGCCCGGGTAGTCTTACGACCCTGGTGCCCTGGGCTGCCGCC  
CTGCTCCTCGCTCTGGGCGTGGAAGGGCTCTGGCGCTACCCGAGATATGCACCCAATGTCCAGGGAGCGTGCAA  
AATTTGTCAAAAGTGGCCTTTTATTGTAAAACGACACGAGAGCTAATGCTGCATGCCCGTTGCTGCCTGAATCAG  
AAGGGCACCATCTTGGGGCTGGATCTCCAGAAGTGTCTCTGGAGGACCCTGGTCCAACTTTTCATCAGGCACAT  
ACCACTGTCATCATAGACCTGCAAGCAAACCCCTCAAAGGTGACTTGGCCAACACCTTCCGTGGCTTTACTCAG  
CTCCAGACTCTGATACTGCCACAACATGTCAACTGTCCTGGAGGAATTAATGCCTGGAATACTATCACCTCTTAT  
ATAGACAACCAAATCTGTCAAGGGCAAAGAACCTTTGCAATAACACTGGGGACCCAGAAATGTGTCCTGAGAAT  
GGATCTTGTGTACCTGATGGTCCAGGTCTTTTGCAGTGTGTTTGTGCTGATGGTTCCATGGATAACAAGTGTATG  
CGCCAGGGCTCGTTCTCACTGCTTATGTTCTTCGGGATTCTGGGAGCCACCACTCTATCCGCTCTCCATTCTGCTT  
TGGGCGACCCAGCGCCGAAAAGCCAAGACTTCATGAAGTACATAGGTCTTACCATTGACCTAAGATCAATCTGAA  
CTATCTTAGCCCAGTCAGGGAGCTCTGCTTCCTAGAAAGGCATCTTTCGCCAGTGGATTCCGCTCAAGGTTGAGG  
CCGCCATTGGAAGATGAAAAATTGCACTCCCTTGGTGTAGACAAATACCAGTTCCTTGGTGTGTTGCCTATA  
ATAAACACTTTTTCTTTTTAAAAA

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**FIGURE 697**

MLHARCCLNQKGTTILGLDLQNC SLEDPGPNFHQAHTTVIIDLQANPLKGD LANTFRGFTQLQTLILPQHVNC PGG  
INAWNTITSYIDNQICQGQKNLCNNTGDP E M C P E N G S C V P D G P G L L Q C V C A D G F H G Y K C M R Q G S F S L L M F F G I L G  
ATTLSVSILLWATQRRKAKTS

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**FIGURE 698**

GC GCCCTAGCCCTCTTTTCGGGGATACTGGCCGACCCCTCTTCCTTTTCCCCTTTAGTGAAGGCCTCCCCCGTCG  
CCGCGCGGGCTTCCCGGAGCCGACTGCAGACTCCCTCAGCCCGGTGTTCCCGCGTCCGGACGCCGAGGTCGCGGC  
TTCGCAGAAACTCGGGCCCCCTCCATCCGCCCTCAGAAAAGGGAGCGATGTTGATCTCAGGAAGCACAAAGGGACC  
TTCCTAGCTCTGACTGAACCACGGAGCTCACCTGGACAGTATCACTCCGTGGAGGAAGACTGTGAGACTGTGGC  
TGGAAGCCAGATTGTAGCCACACATCCGCCCTGCCCTACCCAGAGCCCTGGAGCAGCAACTGGCTGCAGATCA  
CAGACACAGTGAGGATATGAGTGTAGGGGTGAGCACCTCAGCCCTCTTTCCCCAACCTCGGGCACAAGCGTGGG  
CATGTCTACCTTCTCCATCATGGACTATGTGGTGTTCGTCCTGCTGCTGGTTCTCTCTCTTGCCATTGGGCTCTA  
CCATGCTTGTGCTGGCTGGGGCCGGCATACTGTTGGTGAGCTGCTGATGGCGGACCGCAAAATGGGCTGCCTTCC  
GGTGGCACTGTCCCTGCTGGCCACCTTCCAGTCAGCCGTGGCCATCCTGGGTGTGCCGTGAGAGATCTACCGATT  
TGGGACCCAATATTGGTTCTTGGGCTGCTGCTACTTCTGGGGCTGCTGATACCTGCACACATCTTCATCCCCGT  
TTTCTACCGCCTGCATCTCACCAGTGCCATGAGTACCTGGAGCTTCGATTCAATAAAACTGTGCGAGTGTGTGG  
AACTGTGACCTTCATCTTTCAGATGGTGATCTACATGGGAGTTGTGCTCTATGCTCCGTCAATTGGCTCTCAATGC  
AGTGAAGGCGCTTGTGCTGTGGCTGTCCGTGCTGGCCCTGGGCATTGTCTGTACCGTCTATACAGCTCTGGGTGG  
GCTGAAGGCGCTCATCTGGACAGATGTGTTCCAGACACTGGTTCATGTTCCCTCGGGCAGCTGGCAGTTATCATCGT  
GGGGTCAGCCAAGGTGGGCGGCTTGGGGCGTGTGTGGGCCGTGGCTTCCCAGCACGGCCGCATCTCTGGGTTTGA  
GCTGGATCCAGA CCCCCTTTGTGCGGCACACCTTCTGGACCTTGGCCTTTCGGGGGTGTCTTCATGATGCTCTCCTT  
ATACGGGGTGAACCAGGCTCAGGTGCAGCGGTACCTCAGTTCCCGCACGGAGAAGGCTGCTGTGCTCTCCTGTTA  
TGCAGTGTTCCTTCCAGCAGGTGTCCCTCTGCGTGGGCTGCCTCATTGGCCTGGTCATGTTGCGGTATTACCA  
GGAGTATCCCATGAGCATTACAGCAGGCTCAGGCAGCCCCAGACCAGTTTCGTCTGTACTTTGTGATGGATCTCCT  
GAAGGGCTGCCAGGCTGCCAGGGCTCTTCATTGCCTGCCTCTTCAGCGGCTCTCTCAGCACTATATCCTCTGC  
TTTTAATTCATTGGCAACTGTTACGATGGAAGACCTGATTGCACCTTGGTTCCCTGAGTCTCTGAAGCCCGGGC  
CATCATGCTTTCCAGAGGCCCTTGCCCTTGGCTATGGGCTGCTTTGTCTAGGAATGGCCTATATTTCTCCAGAT  
GGGACCTGTGCTGCAGGCAGCAATCAGCATCTTTGGCATGGTTGGGGACCGCTGCTGGGACTCTTCTGCCTTGG  
AATGTTCTTTCCATGTGCTAACCCTCCTGGTGTGTTGTGGGCTGTTGGCTGGGCTCGTCATGGCCTTCTGGAT  
TGGCATCGGGAGCATCGTGACCAGCATGGGCTTCAGCATGCCACCCTCTCCCTCTAATGGGTCCAGCTTCTCCCT  
GCCCCAATCTAACCCTTGCCACTGTGACCACACTGATGCCCTTGACTACCTTCTCCAAGCCCACAGGGCTGCA  
GCGGTTCTATTCTTGTCTTACTTATGGTACAGTGCTCACAACCTCCACCACAGTGATTGTGGTGGGCTGATTGT  
CAGTCTACTCACTGGGAGAATGCGAGGCCGCTCCCTGAACCCTGCAACCATTACCCAGTGTGGCAAAGCTCCT  
GTCCCTCCTTCCGTTGTCTGTGAGAGCGGCTCCACTGCAGGAGCTACGGCCAGGACCACCTCGACACTGGCCT  
GTTTCTGAGAAGCCGAGGAATGGTGTGCTGGGGGACAGCAGAGACAAGGAGGCCATGGCCCTGGATGGCACAGC  
CTATCAGGGGAGCAGCTCCACCTGCATCCTCCAGGAGACCTCCCTGTGATGTTGACTCAGGACCCCGCCTCTGTC  
CTCACTGTGCCAGGCCATAGCCAGAGGCCACCCTGTAGTACAGGGATGAGTCTTGGTGTGTTCTGCAGGGACAGG  
CCTGGATGATCTAGCTCATACCAAAGGACCTTGTCTGAGAGGTTCTTGCTGCAGGAGAAGCTGTACATCTCA  
AGCATGTGAGGCACCGTTTTTCTCGTCGCTTGCCAATCTGTTTTTTAAAGGATCAGGCTCGTAGGGAGCAGGATC  
ATGCCAGAAATAGGGATGGAAGTGCATCCTCTGGGAAAAAGATAATGGCTTCTGATTCAACATAGCCATAGTCTT  
TTGAAGTAAGTGGCTAGAAACAGCACTCTGGTTATAATTGCCCCAGGGCCTGATTCAGGACTGACTCTCCACCAT  
AAAAGTGAAGCTGCTTCCCCTGTAGTCCCCATTTAGTACCAGTTCTGCCAGCCACAGTGAGCCCCCTATTATTA  
CTTTAGATTGTCTGTGACACTCAAGCCCCCTCTCATTTTTATCTGTCTACCTCCATTCTGAAGAGGGAGGTTTTG  
GTGTCCCTGGTCTCTGGGAATAGAAGATCCATTTGTCTTTGTGTAGAGCAAGCACGTTTTCCACCTCACTGTCT  
CCATCCTCCACCTCTGAGATGGACACTTAAGAGACGGGGCAATGTGGATCCAAGAAACCAGGGCCATGACCAGG  
TCCACTGTGGAGCAGCCATCTATCTACCTGACTCCTGAGCCAGGCTGCCGTGGTGTGCTATTCTGTATCCGTGCT  
CTGTTTTCTTTTGGAGTTTCTTCTCCACATTATCTTTGTTTCTGGGAATAAAACTACCATTGGACCTAAAAA  
AAAAAAAAAAAA

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**FIGURE 699**

MSVGVSTSAPLSPTSGTSVGMSTFSIMDYVVFVLLLVLSLAIGLYHACRGWGRHTVGELLMADRKMGCPLVALSL  
LATFQSAVAILGVPSEIYRFGTQYWFLGCCYFLGLLIPAHIFIPVFYRLHLTSAYEYLELRFNKTVRVC GTVTFI  
FQMVIYMGVVL YAPSLALNAVITGFDLWLSVLALGIVCTVYTALGGLKAVIWDV FQTLVMFLGQLAVIIVGSAKV  
GGLGRVWAVASQHGRISGFELDPDPFVRHTFWTLAFGGVFMMLSLYGVNQAQVQRYLSSRTEKAAVLSCYAVFPF  
QQVSLCVGCLIGLVMFAYYQEYPMSIQQAQAAPDQFVLYFVMDLLKGLPGLPGLFIACLFSGSLSTISSAFNSLA  
TVTMEDLIRPWFPEFSEARAIMLSRGLAFGYGLLCLGMAYISSQMGPVLQAAISIFGMVGGPLLGLFCLGMFFPC  
ANPPGAVVGLLAGLVMAFWIGIGSIVTSMGFSPSPSNGSSFSLPTNLTVATVTTLMP LTTFSKPTGLQRFYSL  
SYLWYSAHNSTTVIVVGLIVSLITGRMRGRSLNPAT IYPVLPKLLSLLPLSCQKRLHCRSYGQDHLD TGLFPEKP  
RNGVLGDSRDKEAMALDGTAYQGSSSTCILQETSL

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**FIGURE 700**

GCCTGCGCGGAGGGAGCCGCGAGACAGGTGCGCATGCGCAGTGCGCGTCTGCGAGACCGACTTGGACGGAGCCGA  
GCTGAGGCTCGGCTTCCTGCTGATGGTCAGGGTTTTGGCAACTCCCCGGTGTGAGAGGGGTAGGGAGTGCTCCCG  
GCGGCGACGGGGCCGAGTTCACCAGCCGCCGGGGCAGTAGTCGAAGGCCCGGCGCGGCATGTCCTGGGTGCCGCG  
GTGCGGGCAGTGAAACGCGCGCCGGGCGGGATGGGCCGGCGCCGGGCGCCAGAGCTGTACCGGGCTCCGTTCCTCGT  
TGTACGCGCTTCAGGTGACCCCAAGCACTGGGCTGCTCATCGCTGCGGGCGGAGGAGGCGCCGCAAGACAGGCA  
TAAAGAATGGCGTGCACTTCTGTCAGCTAGAGCTGATTAATGGGCGCTTGAGTGCCTCCTTGCTGCACTCCCATG  
ACACAGAGACACGGGCCACCATGAACTTGGCACTGGCTGGTGACATCCTTGCTGCAGGGCAGGATGCCCCACTGTC  
AGCTCCTGCGCTTCAGGCACATCAACAGCAGGGCAACAAGGCAGAGAAGGCCGGTTCGAAGGAGCAGGGGCCTC  
GACAAAGGAAGGGAGCAGCCCCAGCAGAGAAGAAATGTGGAGCGGAAACCCAGCACGAGGGGCTAGAACTCAGGG  
TAGAGAATTTGCAGGCGGTGCAGACAGACTTTAGCTCCGATCCACTGCAGAAAGTTGTGTGCTTCAACCACGATA  
ATACCCTGCTTGCCACTGGAGGAACAGATGGCTACGTCCGTGTCTGGAAGGTGCCAGCCTGGAGAAGGTTCTGG  
AGTTCAAAGCCCACGAAGGGGAGATTGAAGACCTGGCTTTAGGGCCTGATGGCAAGTTGGTAACCGTGGGCGGG  
ACCTTAAGGCCTCTGTGTGGCAGAAGGATCAGCTGGTGACACAGCTGCACTGGCAAGAAAATGGACCCACCTTTT  
CCAGCACACCTTACCGCTACCAGGCCTGCAGGTTTTGGGCAGGTTCCAGACCAGCCTGCTGGCCTGCGACTCTTCA  
CAGTGCAAATTTCCCAAGCGCCTGCGCCAGCCCCCTCCCTGCTACCTCACAGCCTGGGATGGCTCCAACCTTCT  
TGCCCCCTTCGGACCAAGTCCTGTGGCCATGAAGTCGTCTCCTGCCTCGATGTCAGTGAATCCGGCACCTTCCTAG  
GCCTGGGCACAGTCACTGGCTCTGTTGCCATCTACATAGCTTTCTCTCTCCAGTGCCTCTACTACGTGAGGGAGG  
CCCATGGCATTGTGGTGACGGATGTGGCCTTTCTACCTGAGAAGGGTCGTGGTCCAGAGCTCCTTGGGTCCCATG  
AAACTGCCCTGTTCTCTGTGGCTGTGGACAGTCGTTGCCAGCTGCATCTGTTGCCCTCACGGCGGAGTGTTCCCTG  
TGTGGCTCCTGCTCCTGTGTGTGTGCGGGCTTATTATTGTGACCATCCTGCTGCTCCAGAGTGCCTTTCCAGGTT  
TCCTTTAGCTTCCCTGCTTCTGGGAATCAGGAGCCTGGACACTGCCATCTCTAGAGCAGAGTGAGGCCTGGAC  
TCCCTTTGCTCACTCCATTCGGGTCCACAGCTGAGGTTGCCGCTGACAAGATGAATGGGCACTGCCTGCCCTTCT  
AGTGAAAAGGCTTGGCTATGGCCCTGTGTGACTCCAGGTCCCAGGAACCTTGCCTTCGTATCTGTGGATCCATC  
CAGAACAGCGGTATCTGAAGCCCAGGCCATACTCCCTGCCTCCTTTCTTCTGCCTACCAGAGGCTCCAGAGTTGA  
GCTTGTCTTATCTAGAAACATGTGAAGATGCCAAGAGCCTGGAGGCACTGCTGTCCTTCTGCAAGAACAGTT  
TCTCCTCCTCCCCCTCAGCCTTGTGGCCAGTTCTCTTACATGAAGCCCCTGGCATTGCTGGGGAAGGGACTGG  
CCTGGTACTTGCTGTTAGGGCAGGAAGGGGCAAAAGGAAGACTGGGTAGTAATCTGGGGGTTTCAATGGGTAGC  
ACTAAGCCAGCTGGCCTAAAGATGCAATAAGTTCTAGGTAGTCTACCTTACCTTGAGGAATGGGAAAATGAAC  
CTCAGCCCATTAGGCAGGAAAAGTTGATATTTAATAAACAAGGAAAGAGTGAAGTGAAGACCC

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**FIGURE 701**

GTAGCCTC**ATGGA**AGAGAAGCAGATCCTGTGCGTGGGGCTAGTGGTGTGACGTCATCAGCCTGGTGGACAAGT  
ACCCTAAGGAGGACTCGGAGATAAGGTGTTTGTCCCAGAGATGGCAGCGCGGAGGCAACGCGTCCAACCTCCTGCA  
CCGTTCTCTCCCTGCTCGGAGCCCCCTGTGCCCTTCATGGGCTCAATGGCTCCTGGCCATGTTGCTGATTTTGTCC  
TGGATGACCTCCGCCGCTATTCTGTGGACCTACGCTACACAGTCTTTCAGACCACAGGCTCCGTCCCCATCGCCA  
CGGTCACTCATCAACGAGGCCAGTGGTAGCCGCACCATCCTATACTATGACAGGAGCCTGCCAGATGTGTCTGCTA  
CAGACTTTGAGAAGGTTGATCTGACCCAGTTCAAGTGGATCCACATTGAGGGCCGGAACGCATCGGAGCAGGTGA  
AGATGCTGCAGCGGATAGACGCACACAACACCAGGCAGCCTCCAGAGCAGAAGATCCGGGTGTCCGTGGAGGTGG  
AGAAGCCACGAGAGGAGCTCTTCCAGCTGTTTGGCTACGGAGACGTGGTGTGTTGTCAGCAAAGATGTGGCCAAGC  
ACTTGGGGTTCCAGTCAGCAGAGGAAGCCTTGAGGGGCTTGTATGGTCTGTGAGGAAAGGGGCTGTGCTTGTCT  
GTGCCCTGGGCTGAGGAGGGCGCCGACGCCCTGGGCCCTGATGGCAAATTGCTCCACTCGGATGCTTTCCCGCCAC  
CCCGCGTGGTGGATACACTGGGAGCTGGAGACACCTTCAATGCCCTCCGTATCTTCAGCCTCTCCCAGGGGAGGA  
GCGTGCAGGAAGCACTGAGATTCCGGGTGCCAGGTGGCCGGCAAGAAGTGTGGCCTGCAGGGCTTTGATGGCATCG  
TG**TGAG**AGCAGGTGCCGGCTCCTCACACACCATGGAGACTACCATTGCGGCTGCATCGCCTTCTCCCTCCATCC  
AGCCTGGCGTCCAGGTTGCCCTGTTTCAGGGGACAGATGCAAGCTGTGGGGAGGACTCTGCCTGTGTCTGTGTTT  
CCCACAGGGAGAGGCTCTGGGGGGATGGCTGGGGGATGCAGAGCCTCAGAGCAAATAAATCTTCTCAGAGCCAG  
CTTCTCCTCTCAATGTCTGAACTGCTCTGGCTGGGCATTCTTGAGGCTCTGACTCTTCGATCCTCCCTCTTTGTG  
TCCATTCCCCAAATTAACCTCTCCGCCCAGGCCCAGAGGAGGGGCTGCCTGGGCTAGAGCAGCGAGAAGTGCCCT  
GGGCTTGCCACCAGCTCTGCCCTGGCTGGGGAGGACACTCGGTGCCCCACACCCAGTGAACCTGCCAAAGAAACC  
GTGAGAGCTCTTCGGGGCCCTGCGTTGTGCAGACTCTATTCCCACAGCTCAGAAGCTGGGAGTCCACACCGCTGA  
GCTGAACTGACAGGCCAGTGGGGGGCAGGGGTGCGCCTCCTCTGCCCTGCCACCAGCCTGTGATTGTGAGGGT  
CTTCATTGTCCAGAAATACCTCCTCCCCTGACTGCCCCAGAGCCTGAAAGTCTCACCCCTGGAGCCCACCTTGG  
AATTAAGGGCGTGCTCAGCCACAAATGTGACCCAGGATACAGAGTGTTGCTGTCTCAGGGAGGTCCGATCTGG  
AACACATATTGGAATTGGGGCCAACCTCCAATATAGGGTGGGTAAAGGCCTTATAATGTAAAGAGCATATAATGTAA  
AGGGCTTTAGAGTGAGACAGACCTGGATTCAAATCTGCCATTTAATTAGCTGCATATCACCTTAGGGTACAGCAC  
TTAACGCAATCTGCCTCAATTTCTTCATCTGTCAAATGGAACCAATTCTGCTTGGCTACAGAATTATTGTGAGGA  
TAAAAATCATATATAAAAAA

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**FIGURE 702**

MEEKQILCVGLVVLDVISLVDKYPKEDSEIRCLSQRWQRGGNASNSCTVLSLLGAPCAFMGSMAPGHVADFVLDD  
LRRYSVDLRYTVFQTTGSP IATVIINEASGSRTILYYDRSLPDVSATDFEKVDLTQFKWIIHIEGRNASEQVKML  
QRIDAHNTRQPPEQKIRVSVEVEKPREELFQLFGYGDVVFVSKDVAKHLGFQSAEEALRGLYGRVRKGAVLVCAW  
AEEGADALGPDGKLLHSDAFPPPRVVDTLGAGDTFNASVIFSLSQGRSVQEALRFGCQVAGKKCGLQGFDGIV



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**FIGURE 703**

GTAGCCTCATGGGAAGAGAAGCAGATCCTGTGCGTGGGGCTAGTGGTGCTGGACGTCATCAGCCTGGTGGACAAGT  
ACCCTAAGGAGGACTCGGAGATAAGGTGTTTGTCCCAGAGATGGCAGCGCGGAGGCAACGCGTCCAACCTCCTGCA  
CCGTTCTCTCCCTGCTCGGAGCCCCCTGTGCCTTCATGGGCTCAATGGCTCCTGGCCATGTTGCTGACTTCCTGG  
TGGCCGACTTCAGGCGGCGGGGCGTGGACGTGTCTCAGGTGGCCTGGCAGAGCAAGGGGGACACCCCCAGCTCCT  
GCTGCATCATCAACAACCTCCAATGGCAACCGTACCATTGTGCTCCATGACACGAGCCTGCCAGATGTGTCTGCTA  
CAGACTTTGAGAAGGTTGATCTGACCCAGTTCAAGTGGATCCACATTGAGGGCCGGAACGCATCGGAGCAGGTGA  
AGATGCTGCAGCGGATAGACGCACACAACACCAGGCAGCCTCCAGAGCAGAAGATCCGGGTGTCCGTGGAGGTGG  
AGAAGCCACGAGAGGAGCTCTTCCAGCTGTTTGGCTACGGAGACGTGGTGTGTTGTCAGCAAAGATGTGGCCAAGC  
ACTTGGGGTTCCAGTCAGCAGAGGAAGCCTTGAGGGGCTTGTATGGTTCGTGTGAGGAAAGGGGCTGTGCTTGTCT  
GTGCCTGGGCTGAGGAGGGCGCCGACGCCCTGGGCCCCTGATGGCAAATTGCTCCACTCGGATGCTTTCGCCGCCAC  
CCGCGTGGTGGATACACTGGGAGCTGGAGACACCTTCAATGCCTCCGTTCATCTTCAGCCTCTCCCAGGGGAGGA  
GCGTGCAGGAAGCACTGAGATTCCGGGTGCCAGGTGGCCGGCAAGAAGTGTGGCCTGCAGGGCTTTGATGGCATCG  
TGTGAGAGCAGGTGCCGGCTCCTCACACACCATGGAGACTACCATTGCGGGCTGCATCGCCTTCTCCCTCCATCC  
AGCCTGGCGTCCAGGTTGCCCTGTTTCCAGGGGACAGATGCAAGCTGTGGGGAGGACTCTGCCTGTGTCTGTGTTT  
CCCACAGGGAGAGGCTCTGGGGGGATGGCTGGGGGATGCAGAGCCTCAGAGCAAATAAATCTTCCTCAGAGCCAG  
CTTCTCCTCTCAATGTCTGAACTGCTCTGGCTGGGCATTCTTCCAGGGCTCTGACTCTTCGATCCTCCCTCTTTGTG  
TCCATTCCCCAAATTAACCTCTCCGCCCAGGCCAGAGGAGGGGCTGCCTGGGCTAGAGCAGCGAGAAGTGCCT  
GGGCTTGCCACCAGCTCTGCCCTGGCTGGGGAGGACACTCGGTGCCCCACACCCAGTGAACCTGCCAAAGAAACC  
GTGAGAGCTCTTCGGGGCCCTGCGTTGTGCAGACTCTATTCCACAGCTCAGAAGCTGGGAGTCCACACCGCTGA  
GCTGAACTGACAGGCCAGTGGGGGGCAGGGGTGCGCCTCCTCTGCCCTGCCACACAGCCTGTGATTGATGGGGT  
CTTCATTGTCCAGAAATACCTCCTCCCGCTGACTGCCCCAGAGCCTGAAAGTCTCACCCCTGGAGCCCACCTTGG  
AATTAAGGGCGTGCCTCAGCCACAAATGTGACCCAGGATACAGAGTGTTGCTGTCTCAGGGAGGTCCGATCTGG  
AACACATATTGGAATTGGGGCCAACCTCCAATATAGGGTGGGTAAGGCCTTATAATGTAAAGAGCATATAATGTAA  
AGGGCTTTAGAGTGAGACAGACCTGGATTCAAATCTGCCATTTAATTAGCTGCATATCACCTTAGGGTACAGCAC  
TTAACGCAATCTGCCTCAATTTCTTCATCTGTCAAATGGAACCAATTCTGCTTGGCTACAGAATTATTGTGAGGA  
TAAAAATCATATATAAAAAAAAAA

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**FIGURE 704**

MEEKQILCVGLVVLDVISLVDKYPKEDSEIRCLSQRWQRGGNASNSCTVLSLLGAPCAFMGSMAPGHVADFLVAD  
FRRRGVDVSQVAWQSKGDTFSSCCIINNSNGNRTIVLHDTSLPDVSATDFEKVDLTQFKWIEGRNASEQVKML  
QRIDAHNTRQPPEQKIRVSVEVEKPREELFQLFGYGDVVFVSKDVAKHLGFQSAEEALRGLYGRVRKGAVLVCAW  
AEEGADALGPDGKLLHSDAFPPPRVVDTLGAGDTFNASVIFSLSQGRSVQEALRFGCQVAGKKCGLQGFDGIV

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**FIGURE 705**

ATGCCCCCCCCGACCCCTCTGGAGCTGCTACCTCTGCTGCCTGCTGACGGCAGCTGCAGGGGCCGCCAGCTACCCCT  
CCTCGAGGTTTCAGCCTCTACACAGGTTCCAGTGGGGCCCTCAGCCCCGGGGGGCCCCAGGCCAGATTGCCCCC  
CGGCCAGCCAGCCGCCACAGGAAC TGGTGTGCCTACGTGGTGACCCGGACAGTGAGCTGTGTCTTGAGGATGGA  
GTGGAGACATATGTCAAGTACCAGCCTTGTGCCTGGGGCCAGCCCCAGTGTCCTCCAAAGCATCATGTACCGCCGC  
TTCTCCGCCCTCGCTACCGTGTGGCCTACAAGACAGTGACCGACATGGAGTGGAGGTGCTGTCAGGGTTATGGG  
GGCGATGACTGTGCTGAGAGTCCCGCTCCAGCGCTGGGGCCTGCGTCTTCCACACCACGGCCCCCTGGCCCCGGCCT  
GCCCCCCCCAACCTCTCTGGCTCCAGTGCAGGCAGCCCCCTCAGTGGACTGGGGGGAGAAGGTCTTGGGGAGTCA  
GAGAAGGTGCAGCAGCTGGAGGAACAGGTGCAGAGCCTGACCAAGGAGCTGCAAGGCCTGCGGGGCGTCTTGCAA  
GGACTGAGCGGGCGCCTGGCAGAGGATGTGCAGAGGGCTGTGGAGACGGCCTTCAACGGGAGGCAGCAGCCAGCT  
GACGCGGTGCCCCGCCCTGGGGTGCATGAAACCCCTCAATGAGATCCAGCACCAGCTGCAGCTCCTGGACACCCGC  
GTCTCCACCCACGACCAGGAGCTGGGTACCTCAACAACCATCATGGCGGCAGCAGCAGCAGTGGGGGCAGCAGG  
GCCCCAGCCCCAGCCTCAGCCCCCTCCGGGCCCCAGTGAGGAGCTGCTGCGGCAGCTGGAGCAGCGGTTGCAGGAG  
TCCTGCTCCGTGTGCTTGGCCGGGCTAGATGGCTTCCGCCGGCAGCAGCAGGAGGACAGGGAGCGGCTGCGAGCG  
ATGGAGAAGCTGCTGGCCTCGGTGGAGGAGCGGCAACGGCACCTCGCAGGGCTGGCGGTGGGCCGAGGCCCCCCCT  
CAGGAATGCTGCTCTCCAGAGCTGGGCCGGCGACTGGCAGAGCTGGAGCGCAGGCTGGATGTCTGTGGCCGGCTCA  
GTGACAGTGCTGAGTGGGCGGCGAGGCACAGAGCTGGGAGGAGCCGCGGGGCAGGGAGGCCACCCCCCAGGCTAC  
ACCAGCTTGGCCTCCCGCCTGTCTCGCCTGGAGGACCGCTTCAACTCCACCCTGGGCCCTTCGGAGGAGCAGGAG  
GAGAGCTGGCCTGGGGCTCCTGGGGGGCTGAGCCACTGGCTGCCTGCTGCCCGGGGCCGACTAGAGCAGTTGGGG  
GGGCTGCTGGCCATGTGAGCGGGGAGCTGGGGGGCGGTTGGATCTGTTGGAGGAGCAGGTGGCAGGGGCCATG  
CAGGCATGCGGGCAGCTCTGCTCTGGGGCCCCCTGGGGAGCAGGACTCTCAAGTCAGCGAGATCCTCAGTGCCTTG  
GAGCGCAGGGTGTGACAGTGAGGGGCAGCTGCGGCTGGTGGGCTCCGGCCTGCACACGGTGAAGCAGCGGGG  
GAGGCCCCGCGAGGCCACGCTGGAGGGATTACAAGAGGTTGTGGGCCGGCTCCAGGATCGTGTGGATGCCAGGAT  
GAGACAGCTGCAGAGTTACACTACGGCTGAATCTCACTGCGGCCCGGCTAGGCCAACTGGAGGGGCTGCTGCAG  
GCCCCATGGGGATGAGGGCTGTGGGGCCTGTGGCGGAGTCCAAGAGGAATAAGGCCGCTTCGGGATGGTGTGGAG  
CGCTGCTCCTGCCCCCTGTTGCCTCCTCGGGGTCTGGGGCTGGTCCAGGTGTTGGGGGGCCAAAGCCGTGGGGCC  
CTGGACGGCTTCAGCGTGTGTTGGGGGCAGCTCAGGCTCAGCCCTGCAGGCCCTGCAAGGAGAGCTCTCTGAGGTT  
ATTCTCAGCTTCAGCTCCCTCAATGACTCACTGAATGAGCTCCAGACCACTGTGGAGGGCCAGGGCGCTGATCTG  
GCTGACCTGGGGGCAACCAAGGACCGTATCATTTCTGAGATTAACAGGCTGCAGCAGGAGGCCACAGAGCATGCT  
ACAGAGAGTGAAGAGCGCTTCCGAGGCCTAGAGGAGGGACAAGCACAGGCCCGGCCAGTGCCCCAGCTTAGAGGGG  
CGATTGGGCCGTCTTGAGGGTGTCTGTGAACGGTTGGACACTGTGGCTGGGGGACTGCAGGGCCTGCGCGAGGGC  
CTTTCCAGACACGTGGCTGGGCTCTGGGCTGGGCTCCGGGAAACCAACACCACCAGCCAGATGCAGGCAGCCCTG  
CTGGAGAAGCTGGTTCGGGGGACAGGCGGGCCTGGGCAGGCGGCTGGGTGCCCTTAACAGCTCCCTGCAGCTCCTG  
GAGGACCGTCTGCACCAGCTCAGCCTGAAGGACCTCACTGGGCCTGCAGGAGAGGCTGGGCCCCAGGGCCTCCT  
GGGCTGCAGGGACCCCCAGGCCCTGCTGGACCTCCAGGATCACCAGGCAAGGACGGGCAAGAGGGCCCCATCGGG  
CCACCAGGTCTCTAAGGGGAACAGGGAGTGGAGGGGGCACCAGCAGCCCCCTGTGCCCCAAGTGGCATTTCAGCT  
GCTCTGAGTTTGCCCCGGTCTGAACCAGGCACGGTCCCTTCGACAGAGTCCTGCTCAATGATGGAGGCTATTAT  
GATCCAGAGACAGGCGTGTTACAGCGCCACTGGCTGGACGCTACTTGCTGAGCGCGGTGCTGACTGGGCACCGG  
CACGAGAAAGTGGAGGGCCGTGCTGTCCCGCTCCAACCAGGGCGTGGCCCGCTAGACTCCGGTGGCTACGAGCCT  
GAGGGCCTGGAGAATAAGCCGGTGGCCGAGAGCCAGCCAGCCCGGGCACCTTGGGCGTCTTCAGCCTCATCCTG  
CCGCTGCAGGCCCGGGACACGGTCTGCGTCGACCTGGTTCATGGGGCAGCTGGCGCACTCGGAGGAGCCGCTCACC  
ATCTTCAGCGGGGCCCTGCTCTATGGGGACCCAGAGCTTGAACACGCGTAGACTGGGGTCCCGCCCCGACGTGTCT  
ACGTCCGGCTGAAGAGACAGCGGGGGCGGGGCTCCTGGGGTCTCGCCTGAGACGGGGCACCTAGCCCTGGGCGA  
GCGCCGCACCCGGGGCCCGCAGCGGCACCGCGCCAGAGCGGCCTCTCCCCACGCCCGGGGCGCGCCGGCTCAGGG  
AGGCTCGGGGGCCGCCATGCAGACTTTTGGCCTGGCGGATCCCCAAGAACCCTCCAGGGCCGGCCTGCGGAG  
GAGCCGATCCTCGCACCCCTCCGCTCCCTCCACTGGCCCTCCAGGTGATTCCCTGGGCTCCAGGCTCCCCCGCGC  
GGGCGCCGCCACCGCCATACTAAACGATCGAGGAATAAAGACACTTGGTTTTTCT

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**FIGURE 706**

MAPRTLWSCYLCCLLTAAAGAASYPPRGFSLYTGSSGALSPGGPQAQIAPRPASRHRNWCAIVVTRTVSCVLEDG  
VETYVKYQPCAWGQPQCPQSIMYRRFLRPRYRVAYKTVTDMEWRCQGYGGDDCAESPAPALGPASSTPRPLARP  
ARPNLSGSSAGSPLSGLGGEGPGESEKVQQLLEEQVQSLTKELQGLRGVLQGLSGRLAEDVQRAVETAFNGRQQPA  
DAAARPGVHETLNEIQHQLQLLDTRVSTHDQELGHLNNHHGGSSSSSGSRAPAPASAPPGPSEELLRQLEQRLQE  
SCSVCLAGLDGFRQQQEDRERLRAMEKLLASVEERQRHLAGLAVGRRPPQECCSPELGRRRLAELERRLDVVAGS  
VTVLSGRRGTELGGAAGQGGHPPGYTSLASRLSRLEDNFNSTLGPSEEQESWPGAPGGLSHWLPAARGRLEQLG  
GLLANVSGELGGRDLLEEQVAGAMQACGQLCSGAPGEQDSQVSEILSALERVRVDSEGQLRLVGSGLHTVEAAG  
EARQATLEGLQEVVGRQLQDRVDAQDETAAEFTLRLNLTAARLGQLEGLLQAHGDEGCGACGGVQEELGRLRDGVE  
RCSCPLLPPRGPGAGPGVGGPSRGPLDGFSVFGSSGSALQALQGEELSEVILSFSSLNDSLNELQTTVEGQGADL  
ADLGATKDRIISEINRLQQEATEHATESEERFRGLEEGQAQAGQCPSLEGRRLGRLEGVCERLDTVAGGLQGLREG  
LSRHVAGLWAGLRETNTTSQMQAALLEKLVGGAQGLGRRLGALNSSLQLLEDRLHQLSLKDLTGPAGEAGPPGPP  
GLQGPPGPAGPPGSPGKDGQEGPIGPPGPQGEQGVGAPAAPVPQVAFSAALSLPRSEPGTVPFDRVLLNDGGYY  
DPETGVFTAPLAGRYLLSAVLTGHRHEKVEAVLSRSNQGVARVDSGGYEPEGLENKPVAESQPSPGTLGVFSLIL  
PLQAGDTVCDLVMGQLAHSEEPLTIFSGALLYGDPELEHA

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**FIGURE 707**

GGCACGAGGGGCACCGCGGCGCTCGGGTGTGTTTTGGGGGCCCGGGTGGAGGGCCCGGGTGCCGGGGCCCAAGGTG  
CGGCCTCGCTAGCGGGAGAGGGAGCGGGATCACCGGCCCGAGAGAGCTCTCAGGGCCAGAGCGGGGCAGGAGGA  
TGCTTTCCAGCCCCACCATGGAGCTGCGCTGTGGGGGATTGCTGTTTCTGCTTTGATTTCAGGGAATCTA  
GCCCACGTGGAGAAGGTGGAATCTTTGTCCAGTGATGGGGAAGGGGTAGGAGGTGGGGCGTCAGCCCTGACCAGT  
GGCATTGCCTCTTCCCCTGACTATGAATTCAACGTGTGGACCCGACCAGACTGTGCTGAAACGGAATTTGAGAAT  
GGGAACAGGTCATGGTTCTACTTCAGCGTCCGGGGAGGAATGCCAGGAAAACATCAAGATCAACATTATGAAC  
ATGAACAAGCAGAGCAAGCTGTATTCCAGGGCATGGCCCCCTTTGTGCGCACACTGCCACCCGGCCACGCTGG  
GAACGCATTGAGACCGGCCACCTTTGAGATGACAGAGACGCAGTTTGTGTTATCCTTTGTTTCATCGTTTCGTG  
GAGGGCCGTGGGGCCACCACCTTCTTCGCTTCTGCTACCCCTTCTCCTACAGTGACTGCCAGGAACGTCTAAAC  
CAGCTAGACCAGCGCTTTCCGGAGAACCACCCTACCCATAGCAGCCCCCTGGATACCATCTATTACCATCGGGAG  
CTCCTTTGCTATTCTCTGGATGGACTTCGTGTAGATCTGCTGACGATCACTTCCTGCCATGGGCTTCGAGAAGAT  
CGAGAGCCCCGTCTAGAGCAGCTATTTCCTGATACCAGACCCCTCGACCATTCCGTTTCGCGAGGCAAGAGGATA  
TTCTTCTTAAGCAGTAGAGTACACCCAGGGGAGACTCCATCTAGCTTTGTCTTCAATGGCTTTCTGGACTTCATC  
CTCCGACCTGATGATCCCCGGGCCAAACCCTCCGTGCGCTCTTCGTCTTTAAGCTGATTCCCATGTTGAACCC  
GATGGTGTGGTCCGGGGACACTACCGCACAGACTCACGTGGAGTGAATCTGAACCGTCAGTACCTGAAGCCTGAT  
GCCGTCTGCACCCGGCCATCTATGGGGCCAAAGCTGTGCTTCTCTACCACCATGTGCACTCTCGTCTGAACCTC  
CAGAGTTCTCTGAGCACCAGCCAGTTTCTGTCTCCCTCCTGATGCTCCTGTTTCTGACCTGGAGAAAGCCAAC  
AATCTCCAAAATGAAGCTCAGTGTGGGCACTCAGCTGACAGGCATAACGCTGAAGCCTGGAAACAAACAGAGCCA  
GCAGAACAGAAGCTCAACAGTGTGTGGATTATGCCACAACAGTCTGCGGGGCTTGAAGAGTCAGCCCTGATACC  
ATCCCCCCCCAAAGAGAGTGGCGTTGCTTACTATGTGGACCTGCATGGACATGCTTCCAAAAGGGGCTGCTTCATG  
TACGGAAACAGCTTTAGTGAIGAGAGCACCCAGGTGGAAAACATGCTATATCCAAAGCTCATCTCCTTGAATTCA  
GCCCCACTTCGACTTCCAGGGCTGCAATTTCTCAGAGAAGAATATGTATGCCCGAGACCGTAGAGATGGCCAGTCT  
AAAGAGGGAAGCGGCCGTGTTGCAATCTACAAAGCCTCAGGGATAATCCACAGCTACACACTTGAATGCAACTAC  
AACACTGGACGCTCAGTAAACAGCATCCCTGCTGCCTGCCATGACAATGGGCGTGCCAGCCCCCTCCCCGCGG  
GCTTTCCCCTCCAGATACACTGTGGAATATTTGAGCAGGTGGGACGAGCTATGGCCATTGCAGCCCTGGACATG  
GCGGAATGTAATCCGTGGCCCCGAATTGTACTGTGAGACACAGCAGCCTTACTAATCTACGGGCTGGATGCTG  
AAACATGTACGCAACAGCCGAGGCCTAAGCAGCACTCTGAATGTGGGTGTCAACAAGAAGAGGGGCTTCGAACT  
CCACCCAAAAGTCACAATGGGTGCTCTCCTGCTCCGAAAACACCTTGAGTCGGGCACGAAGTTTTAGCACC  
GGCACAAGTGCCGTGGTAGCAGCAGCAGCCAACAAAATTCTCCACAGATGAAGAATTCCCCCAGCTTTCTTTT  
CATGGCAGTCGGCTGCAGGGCTGCCAGGCCTGGGCTCTAGTACCCAAAAGGTCACCCACCGGGTGTGGGCCCC  
GTCAGAGAGCCCCGAAGCCAGGACAGGAGACGGCAGCAGCAGCCCTGAACCATCGTCTGTCAGGCAGCCTCGCT  
CCATCCCCAGCTCCTACTAGTTCTGGCCCAGCCTCCTCACACAAGCTGGGCTCCTGTCTACTGCCTGATTTCATT  
AACATAACCAGGGAGCAGTTGCTCACTCTTGTCTCTGGAGACAAACCAGAGGCTGTCATGGTAATCGGGAAAGGT  
CTGCTAGGGACTGGAGCTCGGATGCCCTGCATCAAGACTCGATTGCAGACCTGTCCGAGGAGAGTTTCCGCCAGG  
AGGGGTCCCGGATTCCCCAGGCTAGGCCAGGTGGGGCCGGGGCTCACCGCCGACTCGCAGAGGGATGAAAGGCT  
CTTCAGGCCCCACATCCCCCTACCCCCCGACCAGGGAGAGCAGTGAGCTGGAGCTGGGATCCTGCTCTGTACAC  
CAGGGCTGCCTCAGGCCAGGCCCCACGGCCCCGCTCTGCCCTGCCTTTTCTCCTATATCCTGTAGTCTATCTG  
ACTCCCCATCCTGGAATTGTTACAGCAGGGGTCCCTTGGGCCAACCTGAGGTTTGTGTTTGTCCCTAAATCTCCCC  
CACTGACTGTTTCTCCCCGGGTCTGATAATGCCTTTATGTTCAATCCAGGATATAGCCCCAAGATGGGGTAACA  
GTGGGAAATATGCTAGTTCCCCTCAGGCCGCTGATTCCATGTGACAGCCGTTAAGTCCTTGGAAATGCCAGCCAC  
GCTGTCCAAGGCATTACAGAGTATCACCTTGAGACAGAACAAAACAGGGACCTGCCACCCCTTCCCTCCCTCCGC  
AGCACAAGATTTTGGGACCACAAAAAAGTCTATATTTTATATTGGGGGGAGGGAGTAGAAAAGCAAGCCCT  
ATACTGGGCCCTATTTCAGTGGCAGCTTCTTGTTCATAGGATTAAGGAAGACTCTGAGGAAATAAAAGTTGTTT  
GAAAAATCCAAAAA

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**FIGURE 708**

MNMNKQSKLYSQGMAPFVRTLPTRPRWERIRDRPTFEMTETQFVLSFVHRFVEGRGATTFFAFCYPFSYSDCQEL  
LNQLDQRFPENHPTHSSPLDTIYYHRELLCYSLDGLRVDLLTITTSCHGLREDREPRLEQLFPDTSTPRPFRFAGK  
RIFFLSSRVHPGETPSSFVFNGFLDFILRPDDPRAQTLRRLFVFKLIPMLNPDGVVRGHRDTSRGVNLNRQYLK  
PDAVLHPAIYGAKAVLLYHHVHSRLNSQSSSEHQPSCLPPDAPVSDLEKANNLQNEAQCGHSADRHNAEAWKQT  
EPAEQKLNSVWIMPQQSAGLEESAPDTIPPKESGVAYYVDLHGHASKRGCFMYGNSFSDESTQVENMLYPKLISL  
NSAHFDFQGCNFSEKNMYARDRRDQSKESGRVAIYKASGIIHSYTLNNTGRSVNSIPAACHDNGRASPPP  
PPAFPSRYTVELFEQVGRAMAIAALDMAECNPWPRIVLSEHSSLTNLRAWMLKHVRNSRGLSSTLNVGVNKKRGL  
RTPPKSHNGLPVSCSENTLSRARSFSTGTSAGGSSSSQONSPQMKNPSFPFHGSRPAGLPGLGSSTQKVTHRVL  
GPVREPRSQDRRRQQQLNHRPAGSLAPSPAPTSSGPASSHKLGSCLLPDSFNIPGSSCSLLSSGDKPEAVMVG  
KLLGTGARMPCIKTRLQTCPRVSARRGPGFPRLGPGWAGAHRRRLAEG

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**FIGURE 709**

CCCGCCCCACTCTGGA CTCCCGCGCTGGGCGCGCTGAGGCGGCCCCCGAGCGAGCGCGCGTGCAGCCGCCGCCG  
CCCGAGCACCCGAGCTCCGGCGCCGCGGCGAGACGGAGACGGACCGAGCCACGGGCCCCCGCGGCCGAGCATC  
TCGGAGGAGAACTGCTTGGCAACTCAGCCAGCGTGAGGATCCTCATCAAGGGAGGCAAGGTGGTGAACGATGAC  
TGCACCCACGAGGCTGACGTCTACATCGAGAATGGCATCATCCAGCAGGTGGGCCGCGAGCTCATGATCCCTGGC  
GGGGCCAAGGTGATTGATGCCACAGGAAAACCTGGTGATCCCTGGTGGCATCGACACCAGCACCCACTTCCACCAG  
ACCTTCATGAATGCCACGTGCGTGGACGACTTCTACCATGGGACCAAGGCAGCACTCGTCGGAGGCACCACCATG  
ATCATCGGCCACGTCTCTGCCGACAAGGAGACCTCCCTTGTGGACGCTTATGAGAAGTGCCGAGGTCTGGCCGAC  
CCCAAGGTCTGCTGTGATTACGCCCTCCACGTGGGGATCACCTGGTGGGCACCCAAGGTGAAAGCAGAAATGGAG  
ACACTGGTGAGGGAGAAGGGTGTCAACTCGTTCCAGATGTTTCATGACCTACAAGGACCTGTACATGCTTCGAGAC  
AGTGAGCTGTACCAAGTGTTCACGCTTGCAAGGACATTGGGGCAATCGCCCGCTCCATGCTGAAAATGGGGAG  
CTTGTGGCCGAGGGTGCTAAGGAGGCACTGGATTGGGGATCACAGGCCCAGAAGGAATCGAGATCAGCCGTCCA  
GAGGAGCTGGAAGCTGAAGCCACTCATCGTGTTCATCACCATTGCAAACAGGACTCACTGTCCAATCTACCTGGTC  
AACGTGTCCAGTATCTCGGCTGGTGACGTTATCGCAGCTGCTAAGATGCAAGGGAAGGTTGTGCTGGCGGAGACC  
ACCACTGCACATGCCACGCTGACAGGCTTACACTACTACCACCAGGACTGGTCCCACGCGGCTGCCTATGTCAGG  
GTGCCTCCCCCTGAGACTGGACACCAACACCTCAACCTACCTCATGAGCCTGCTGGCCAATGACACTCTGAACATC  
GTGGCATCAGATCACCGGCCCTTTCACCACAAAGCAGAAAGCTATGGGCAAGGAAGACTTCACCAAGATCCACAT  
GGAGTGAGTGGCGTGCAGGACCGCATGAGCGTCATCTGGGAGAGAGGAGTGGTTGGAGGAAAGATGGATGAGAAC  
CGTTTTGTGGCCGTTACAGTTCCAACGCAGCTAAGCTTCTGAACCTGTATCCCCGCAAGGGCCGCATTATTCCC  
GGAGCCGATGCTGATGTGGTGGTGTGGGACCCAGAAGCCACAAAGACCATCTCAGCCAGCACGCAGGTCCAGGGA  
GGAGACTTCAACCTGTATGAGAATGCGCTGCCACGGCGTGCCACTGGTCACCATCAGCCGGGGGCGCGTCTGTG  
TATGAGAACGGCGTCTTCATGTGCGCCGAGGGCACCGGCAAGTTCTGTCCCCTGAGGTCTTCCCAGACACTGTC  
TACAAGAAGCTGGTCCAGAGAGAGAAGACTTTAAAGGTTAGAGGAGTGGACCGCACTCCCTACCTGGGGGATGTC  
GCTGTTGTGCTGCACCTTGGGAAAAAAGAGATGGGAACCCCACTCGCAGACACTCCTACCCGGCCCGTCAACCGG  
CATGGGGGCATGAGGGACCTTCACGAATCCAGCTTCAGCCTCTCTGGCTCTCAGATCGATGACCATGTTCCAAAG  
CGAGCTTCAGCTCGGATCCTCGCTCCTCCCGGAGGCAGGTGAGTGGCATTGTTGTAAGGCATTGCCAAGCCCCC  
CGAGTGAGGACGCACCGCCGCCACCAGCCGCAACTCTCCAGCCGAAGCTGCAGGGGCAGGAGAGGCTGGGCTGG  
GTGGCACACCACCCGAGGGGGGGCCCCGGGACCCACGGAGCCCTCCCTATGTCTGCAAAGTGATTCACTGTGCTTC  
GAGCCAACCTCTAACAGGCACTTTGAGATGTGTTCTCTGCTGTAGTCTTTCTGCCTTGGCCTCGGCGGGCTTT  
TCTGGGGCCCAGGAAGCCACACTATGCACAGAGCCCAATGCATAGAGCCCTGGCCAGCCCTTCTCTCACTCCT  
GCCTCCGCTGGCTTTGGGAAAGCCCAGACTTTAGTGCCCTGCCCCCTGGCTGACTGGCCAGTTGCCAGAGCACT  
TTAGCAGATGTGGTTTCAAAGTAAAGGCCTCCTCCCCACCCCTTAGGCCCCGTGGTGACATTTCCCAAGTCAGA  
CAGATGTGAGCTTCCCAGCCATGCCAGGACGTCTATCTCCCCAACCCACCTCTGGCCCTGTGTAGGGGCAGG  
GATGGGGGTGGCTGGGACTCCTGGTGCCCTCGCCAGCTTCTCTGCGCCCCGCCACACCCTCGGGGGGGTCAC  
AGGCCCAGAAGGGTAGCTGGGCGGGGCTCGAGGCTGGTGCCAGGCGCGTGTAATGGTTTTGTTTTGCAGTTTTG  
GTTTTGCGCAGTAGTTTTGTTTTGACTTGTGTTGTGCATCCTGTGAAAAATAACGGTGCTTGTGTCACTAGCATAGAA  
TAGCGACAGGAATAGATGTGGTCTTTAGGAGACGCTGCACTTGACACCAACCAGACAGCACAGGGCAGGGGTGGT  
GGAGGGGGCTGGGCTCACAGGCCTCTCTTTTCCCGCCTGCAGTCTTCTGGGCTGCGGGAGGCCCTGGCCCTTTC  
CCCTTCCCCCTCCCCCTCTTGTCTAGTTTTCCACATTCCAAAAGGGGGCTGGGATGCTAGCCCCAGAGATGCCAG  
CCCTTCAGGAAGCAGGTGTCTTTCCCTCTCTGCCCCTGATCACTCCCAGCACTCCCTTGCCTTCCCTGTCT  
TCACCTGCCACCACACACACACACACACACACACACACACACACATGGCTTCTATAACTTCTTCTGCTG  
GACAGAGACTCAGCGCTCCTCCTGTGTGACTGGCAAGAGGCCTCATGCCTGCTGAGAGAGGGTCGACGCGCCG

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**FIGURE 710**

MLANSASVRILIKGGKVVNDCTHEADVYIENGIIQQVGRELMIPGGAKVIDATGKLVIPGGIDTSTHFHQTFMN  
ATCVDDFYHGTKAALVGGTTMIIGHVLPDKETSLVDAYEKCRGLADPKVCCDYALHVGITWWAPKVKAEMETLVR  
EKGVNSFQMFMTYKDLYMLRDSELYQVLHACKDIGAIARVHAENGELVAEGAKEALDLGITGPEGIEISRPEELE  
AEATHRVITIANRTHCPIYLVNVSSISAGDVIAAAKMQGKVLAETTTAHATLTGLHYHQDWSHAAAYVTVPPPL  
RLDTNTSTYLMSLLANDTLNIVASDHRPFTTKQKAMGKEDFTKIPHGVSQVQDRMSVIWERGVSQVQDRMSV  
VTSSNAKLLNLYPRKGRIIPGADADVVDPEATKTI SASTQVQGGDFNLYENMRCHGVPLVTISRGRVYENG  
VFMCAEGTGKFCPLRSFPDVTYKKLVQREKTLKVRGVDRTPYLGDVAVVHVPKKGEMGTPLADTPTRPVTRHGGM  
RDLHESSFSLSGSQIDDHVPKRASARILAPPGGRSSGIW



**FIGURE 711**

CTTGCTCCGAGAGGGAGTCTCGCGGACGCTCAGCCAAGATTCCAGAATGACTATCTTTGACTTACCCTTTAAAAA  
TCTTCCCCTGTCATCAAAATGGGCGCTCAGATTTTCCATAAGACCTCTGAGCTGTTTCTCCAGCTACGAGCTGC  
CCCAGCTGTCCAGACCAAAACGAAGAAGACGTTAGCCAAACCCAATATAAGGAATGTTGTGGTGGTGGATGGTGT  
TCGCACTCCATTTTTGCTGTCTGGCACTTCATATAAAGACCTGATGCCACATGATTTGGCTAGAGCAGCGCTTAC  
GGGTTTGTGTCATCGGACCAGTGTCCCTAAGGAAGTAGTTGATTATATCATCTTTGGTACAGTTATTTCAGGAAG  
GAAAACAAGCAATGTGGCTAGAGAGGCTGCCCTTGGAGCTGGCTTCTCTGACAAGACTCCTGCTCACACTGTCAC  
CATGGCTTGTATCTCTGCCAACCAAGCCATGACCACAGGTGTTGGCTTGATTGCTTCTGGCCAGTGTGATGTGAT  
CGTGGCAGGTGGTGTGAGTTGATGTCCGATGTCCCTATTTCGTCACTCAAGGAAAATGAGAAAACCTGATGCTTGA  
TCTCAATAAGGCCAAATCTATGGGCCAGCGACTGTCTTTAATCTCTAAATTCCGATTTAATTTCTAGCACCTGA  
GCTCCCTGCGGTTTCTGAGTTCTCCACCAGTGAGACCATGGGCCACTCTGCAGACCGACTGGCCGCTGCCTTTGC  
TGTTTCTCGGCTGGAACAGGATGAATATGCACTGCGCTCTCACAGCTAGCCAAGAAGGCACAGGATGAAGGACT  
CCTTTCTGATGTGGTACCCTTCAAAGTACCAGGAAAAGATACAGTTACCAAAGATAATGGCATCCGTCCTTCTCT  
ACTGGAGCAGATGGCCAAACTAAAACCTGCATTTCATCAAGCCCTACGGCACAGTGACAGCTGCAAATTCTTCTTT  
CTTGACTGATGGTGCATCTGCAATGTTAATCATGGCGGAGGAAAAGGCTCTGGCCATGGGTTATAAGCCGAAGGC  
ATATTTGAGGGATTTTATGTATGTGTCTCAGGATCCAAAAGATCAACTATTACTTGGACCAACATATGCTACTCC  
AAAAGTTCTAGAAAAGGCAGGATTGACCATGAATGATATTGATGCTTTTGAATTTTCATGAAGCTTTCTCGGGTCA  
GATTTTGGCAAATTTTAAAGCCATGGATTCTGATTGGTTTGCAGAAAACACATGGGTAGAAAAACCAAGGTTGG  
ATTGCCCTCTTTGGAGAAAGTTTAAATAACTGGGGTGGATCTCTGTCCCTGGGACACCCATTTGGAGCCACTGGCTC  
CAGGTTGGTCATGGCTGCTGCCAACAGATTACGGAAAGAAGGAGGCCAGTATGGCTTAGTGGCTGCGTGTGCAGC  
TGGAGGCGCAGGGCCATGCTATGATAGTGGAAGCTTATCCAAAATAGATCCAGAAGAAGTGACCTGAAGTTTC  
TGTGCAACACTCACACTAGGCAATGCCATTTCAATGCATTACTAAATGACATTTGTAGTTTCTAGCTCCTCTTAG  
GAAAAACAGTTCTTGTGGCCTTCTATTAAATAGTTTGCACCTTAAGCCTTGCCAGTGTCTGAGCTTTTCAATAATC  
AGTTTACTGCTCTTTTCAGGGATTTCTAAGCCACCAGAATCTCACATGAGATGTGTGGGTGGTTGTTTTTGGTCTC  
TGTTGTCACTAAAGACTAAATGAGGGTTTGCAGTTGGGAAAGAGGTCAACTGAGATTTGGAAATCATCTTTGTAA  
TATTTGCAAATTATACTTGTCTTATCTGTGTCCTAAAGATGTGTTCTCTATAAAATACAAACCAACGTGCCTAA  
TTAATTATGGAAAAATAATTCAGAATCTAAACACCACTGAAAACCTTATAAAAAATGTTTAGATACATAAATATGG  
TGGTCAGCGTTAATAAAGTGGAGAAAATATTGGAAAAA

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**FIGURE 712**

MTILTYPFKNLPTASKWALRFSIRPLSCSSQLRAAPAVQTKTKKTLAKPNIRNVVVVDGVRTPFLLSGTSYKDLMPHDLARAALTGLLHRTSVPKEVVDYIIFGTVIQEVKTSNVAREEALGAGFSDKTPAHTVTMACISANQAMTTGVGLIASGQCDVIVAGGVELMSDVP IRHSRKMRKLMLDLNKAQSMGQRLSLISKFRFNFLAPELPAVSEFSTSETMGHSADRLAAAFAVSRLEQDEYALRSHSLAKKAQDEGLLSDVVPFKVPGKDTVTKDNGIRPSSLEQMAKLKPAFIKPYGTVTAANSSFLTDGASAMLIMAEKALAMGYKPKAYLRDFMYVSQDPKDQLLLGPTYATPKVLEKAGLTMNDIDAFEFHEAFSGQILANFKAMDSDFWFAENYMGRKTKVGLPPLEKFNNWGGSLSLGHFPFGATGCRLVMAAANRLRKEGGQYGLVAACAAGGQGHAMIVEAYPK

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**FIGURE 713**

GGCACGAGGCCACTGCTGTCTCTTCAGCTCAAGATGGTGGCCTGCCGGGCGATTGGCATCCTCAGCCGCTTTTC  
TGCCTTCAGGATCCTCCGCTCCCGAGGTTATATATGCCGCAATTTTACAGGGTCTTCTGCTTTGCTGACCAGAAC  
CCATATTAAGTATGGAGTCAAAGGGGATGTGGCAGTTGTTTGAATTAAGTCTCCCAATTCAAAGGTAAATACACT  
GAGTAAAGAGCTACATTTCAGAGTTCTCAGAAGTTATGAATGAAATCTGGGCTAGTGATCAAATCAGAAGTGCCGT  
CCTTATCTCATCAAAGCCAGGCTGCTTTATTGCAGGTGCTGATATCAACATGTTAGCCGCTTGCAAGACCCCTCA  
AGAAGTAACACAGCTATCACAAGAAGCACAGAGAATAGTTGAGAACTTGAAAAGTCCACAAAGCCTATTGTGGC  
TGCCATCAATGGATCCTGCCTGGGAGGAGACTTGAGGTTGCCATTTTCATGCCAATACAGAATAGCAACAAAAGA  
CAGAAAAACAGTATTAGGTACCCCTGAAGTTTGTGTTGGGGCCTTACCAGGAGCAGGAGGCACACAAAGGCTGCC  
CAAAATGGTGGGTGTGCCTGCTGCTTTGGACATGATGCTGACTGGTAGAAGCATTTCGTGCAGACAGGGCAAAGAA  
AATGGGACTGGTTGACCAACTGGTGGAACCCCTGGGACCAGGACTAAAACCTCCAGAGGAACGGACAATAGAATA  
CCTAGAAGAAGTTGCAATTACTTTTGCCAAAGGACTAGCTGATAAGAAGATCTCTCCAAAGAGAGACAAGGGATT  
GGTGAAAAAATTGACAGCGTATGCCATGACTATTCCATTTGTCAGGCAACAGGTTTACAAAAAGTGAAGAAAA  
AGTGCGAAAGCAGACTAAAGGCCTTTATCCTGCACCTCTGAAAAATAATTGATGTGGTAAAGACTGGAATTGAGCA  
AGGGAGTGATGCCGGTTATCTCTGTGAATCTCAGAAATTTGGAGAGCTTGTAATGACCAAAGAATCAAAGGCCTT  
GATGGGACTCTACCATGGTCAGGTCCTGTGCAAGAAGAATAAATTTGGAGCTCCACAGAAGGATGTTAAGCATCT  
GGCTATTCTTGGTGCAGGGCTGATGGGAGCAGGCATCGCCCAAGTCTCCGTGGATAAGGGGCTAAAGACTATACT  
TAAAGATGCCACCCCTCACTGCGCTAGACCGAGGACAGCAACAAGTGTTCAAAGGATTGAATGACAAAGTGAAGAA  
GAAAGCTCTAACATCATTGAAAGGGATTCCATCTTCAGCAACTTGACTGGGCAGCTTGATTACCAAGGTTTTGA  
AAAGGCCGACATGGTGATTGAAGCTGTGTTTGAGGACCTTAGTCTTAAGCACAGAGTGCTAAAGGAAGTAGAAGC  
GGTGATTCCAGATCACTGTATCTTTGCCAGTAACACATCTGCTCTCCCAATCAGTGAAATCGCTGCTGTCAGCAA  
AAGACCTGAGAAGGTGATTGGCATGCACTACTTCTCTCCCGTGGACAAGATGCAGCTGCTGGAGATTATCACGAC  
CGAGAAAACTTCCAAAGACACCAGTGCTTCAGCTGTAGCAGTTGGTCTCAAGCAGGGGAAGGTCATCATTGTGGT  
TAAGGATGGACCTGGCTTCTATACTACCAGGTGCTTTCGCCCATGATGTCTGAAGTCATCCGAATCTCCAGGA  
AGGAGTTGACCCGAAGAAGCTGGATTCCCTGACCACAAGCTTTGGCTTTCTGTGGGTGCCGCCACACTGGTGGA  
TGAAGTTGGTGTGGATGTAGCGAAACATGTGGCGGAAGATCTGGGCAAAGTCTTTGGGGAGCGGTTTGAGGGTGG  
AAACCCAGAACTGCTGACACAGATGGTGTCCAAGGGCTTCTAGGTCGTAAATCTGGGAAGGGCTTTTACATCTA  
TCAGGAGGGGTGTGAAGAGGAAGGATTTGAATTCTGACATGGATAGTATTTTAGCGAGTCTGAAGCTGCCTCCTAA  
GTCTGAAGTCTCATCAGACGAAGACATCCAGTTCCGCCTGGTGACAAGATTTGTGAATGAGGCAGTCATGTGCCT  
GCAAGAGGGGGATCTTGGCCACACCTGCAGAGGGAGACATCGGAGCCGTCTTTGGGCTTGGCTTCCCGCCTTGCT  
GGGAGGGCCTTTCCGCTTTGTGGATCTGTATGGCGCCAGAAAGATAGTGGAACCGGCTCAAGAAATATGAAGCTGC  
CTATGGAACACAGTTACCCCATGCCAGCTGCTAGCTGACCATGCTAACAGCCCTAACAAAGATTCTACCAGTG  
AGCAGGCCCTCATGCCTCGCTCAGTCAGTGCACTAACCCAGCTGCCGGCAGTGCTGGTTCTCCAACAGAGTGGTG  
TCTAGATTTATCAGAGTAACGAGAAGACAAACTCCGGCACTGGGTTTGTCTCCCTGATTAAAGTGCCTTCAGCCAA  
GACCATCTCTCCCTCCTGGTGAAGTGTGACTTCGAATTAGTTTGAAGTCTCTATTGGAAGGTAGAGCCCACTGCT  
CATTGTATAAGCCCCGAGGCCTAGAGTGGCAGCCAAGAGCCATCTGAAGCCACCTCTCTGCCTGTTCTCCCAAG  
AGGCCAGGGTGGCCAGGGGTGGTGAGGGCAGTTCTGCACCCAGCCAAACACATAACAATAAAAACCAAACTCTGT  
GTCAGCATCTTTGCCCTTCTGGTTTAAACGCCTCTTCAAAAAGCAATCTGGAAGAAAGCCCTGTGCTTTGGGGG  
AGTAAGAATGTGTGTGCAGAATTCTAGGCAGCACCTTAGGGAGGGACTGGGATGAGAGAAAGTGGGACCTGGTGG  
GCTCAACCACACACCTGTCTGTGCAGATGCTTTGCCAGGCTTCTCACCACGGTGTACCGGGATATTAAACCT  
CTTTCCCCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 714**

MVACRAIGILSRFSAFRILRSRGYICRNFTGSSALLTRTHINYGVKGDVAVVRINSPNSKVNTLSKELHSEFSEV  
MNEIWASDQIRSAVLISSEKPGCFIAGADINMLAACKTLQEVTLQSQEAQRIVEKLEKSTKPIVAAINGSCLGGL  
EVAISCQYRIATKDRKTVLGTPEVLLGALPGAGGTQRLPKMVGVPAAALDMMLTGRSIRADRAKKMGLVDQLVEPL  
GPGLKPPEERTIEYLEEVAITFAKGLADKKISPKRDKGLVEKLTAYAMTIPFVRQQVYKKVEEKVRKQTKGLYPA  
PLKIIDVVKTGIEQGS DAGYLCESQKFGEVMTKESKALMGLYHGQVLCCKNKFGAPQKDVKHLAILGAGLMGAG  
IAQVSVDKGLKTILKDATLTALDRGQQQVFKGLNDKVKKKALTSFERDSIFSNLTGQLDYQGFEEKADMVIEAVFE  
DLSLKHRVLKEVEAVIPDHCIFASNTSALP ISEIAAVSKRPEKVIGMHYFSPVDKMQLEIITTEKTSKDTASA  
VAVGLKQGVIIIVKDGPGFYTTTRCLAPMMSEVIRILQEGVDPKKLDSLTTSF GFFVGAATLVDEVGVDVAKHVA  
EDLGKVFGERFGGNPPELLTQMVS KGFLGRKSGKGFYIYQEGVKRKDLNSDMDSILASLKLPPKSEVSSDEDIQF  
RLVTRFVNEAVMCLQEGILATPAEGDIGAVFGLGFPFCLGGPF RFVDLYGAQKIVDRLKKYEAAAYGKQFTPCQLL  
ADHANSPNKKFYQ

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**FIGURE 715**

TTCTGTTTTTCTCTCTCATTCTCCAGTGGCGGCGGGGGAAGGCGGAGGCAGAGGCAGCAGCAGCCGCGCTGGC  
TGCAATGAATGATCCCCAGCTTGGGGGGAGGACTCCAGGTGAGCCTCTGCCCTCGGGAGGCCCCGGGACCCCCGG  
CCGCCCACGACCGGCAGCCCACGCTATGGATCCCTAGAGGAAGGAGGAGAAGACAGCTCGCCGCCCACCCCCATC  
CCATTTTCCTCTTCTTTATCTCATTGTTGCCGAAGCTGTTTACGGCAGCGCTCCCTCTGCTCCAGGACTCCCTG  
GGGGGAATGCCAAGACCATCATGGTAGCCACACTGGGGCCAGCTTCTCACAGCTACGATGAGAGCCTCTCCACC  
TTGCGCTTTGCCAACCAGCCAAGAACATCAAGAACAAGCCCCAGGTGAACGAGGACCCCAAGGACACACTGCTG  
CGGGAATTCCAAGAGGAGATTGCCCGCCTGAAGGCCAGCTGGAGAAGAGGGGGATGCTGGGGAAGCGGCCCGG  
AGGAAGAGCAGCCGCAGGAAGAAGGCCGTGTCCGCCCCGCTGGGTACCCTGAGGGCCCAGTGATTGAGGCCTGG  
GTGGCAGAAGAGGAGGATGACAACAACAACCACCGCCCGCCCCAGCCCATCCTGGAGTCAGCCTTGAGAGAAG  
AACATGGAGAATTACCTGCAGGAACAGAAGGAGCGGCTGGAGGAGGAGAAGGCAGCCATCCAGGATGACCGCA

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**FIGURE 716A**

GCTGGAGGTGGCCTCCCCTCCGCCCCAGACAAGAAGAGGCCCTCAGCCCTCCCCCGGTCTCAGAGAGCCCTGAGA  
GGAGGCCCAGTCCAGAGCTCTTCCTCCGTTCCCAGTCCACTTCTCTAGGGCCAGTAGCAGACACCAGCCAGTATG  
CCGAGGAACCAGGGCTTCTCCGAGCCCGAATACTCGGCCGAGTACTCAGCCGAGTACTCCGTCAGCCTGCCCTCC  
GACCCTGACCGCGGGGTGGGCCGGACCCATGAAATCTCGGTCCGGAACTCGGGCTCCTGCCTGTGCCTGCCTCGC  
TTCATGCGGCTGACTTTCGTGCCGGAGTCCTTGGAGAACCTCTACCAGACCTACTTCAAAGGCAGCGCCACGAG  
ACCCTGCTGGTGCTGGTGGTCTTTGCAGCCCTCTTTGACTGCTACGTGGTGGTTCATGTGTGCTGTGGTCTTTCTCC  
AGCGACAAGCTGGCTTCCCTCGCCGTGGCTGGAATTGGACTGGTGTGGACATCATCTCTTCGTGCTCTGCAAA  
AAGGGGCTGCTCCCGGACCGGGTCACCCGCAGAGTGCTGCCCTACGTGCTGTGGCTGCTCATAACCGCCCAGATC  
TTCTCCTACCTGGGCCTGAACCTCGCGCGTGCCACGCGGCTAGTGACACGGTGGGCTGGCAGGTCTTCTTTGTG  
TTCTCCTTCTTCATCAGCTGCCCTCAGCCTCAGCCCCATCGTGATCATCTCCGTGGTCTCCTGTGTGGTGCAC  
ACGTTGGTCTCTGGGGGTACCGTGGCCAGCAGCAGCAGGAGGAGCTCAAGGGGATGCAGCTGCTGCGGGAGATC  
CTGGCCAACGTCTTCTCTACCTGTGCGCCATCGCTGTGGGCATCATGTCTACTACATGGCTGACCGCAAGCAC  
CGCAAGGCCCTTCTGGAGGCCCCGAGTCGCTGGAGGTGAAGATGAACCTGGAAGAGCAGAGCCAGCAGCAGGAG  
AACCTCATGCTTTCCATCCTGCCAAGCACGTGGCTGACGAGATGCTGAAAGACATGAAGAAAGACGAGAGCCAG  
AAGGACCAGCAGCAGTTCAACACCATGTACATGTACCGTCACGAGAACGTCAGCATCCTCTTTGCCGACATCGTG  
GGCTTTACCCAGCTGTCTTCTGCCTGCAGTGCCAGGAGCTTGTGAAGCTGCTCAACGAGCTCTTTGCCGCTTT  
GACAAGCTGGCAGCTAAATACCACAGCTGCGGATTAAGATCTGGGCGACTGCTACTACTGCATCTGCGGCTTG  
CCCGACTACCGGGAGGACCACGCCGTCTGCTCCATCCTCATGGGGCTGGCCATGGTGGAGGCCATCTCGTATGTG  
CGGGAGAAGACCAAGACTGGGGTGGACATGCGTGTGGGGGTGCACACGGGCACCGTGTGGGGGGCGTCTGGGGC  
CAGAAGCGCTGGCAGTACGACGTGTGGTGCAGTGTACTGTAGCCAACAAGATGGAGGCCGGCGGCATCCCT  
GGGCGCGTGCACATCTCCAGAGCACCATGGACTGCCTGAAAGGGGAGTTTGATGTGGAGCCAGGCGATGGGGGC  
AGCCGCTGTGATTACCTAGAAGAGAAGGTATTGAAACCTACCTCATCATTGCCTCCAAGCCAGAGGTGAAGAAA  
ACAGCCACCCAGAATGGCCTCAATGGCTCGGCCCTGCCCAATGGAGCACCAGCTTCTCAAAGTCCAGCTCCCCCT  
GCCCTCATTGAGACCAAGGAGCCCAACGGGAGTGCCACAGCAGTGGGTCCACGTCGGAGAAGCCCGAGGAGCAG  
GATGCCCAGGCCGACAACCCCTCATTCCCCAACCCACGCCGGAGGCTGCGCCTGCAGGACCTGGCTGACCGAGTG  
GTGGATGCCTCTGAAGATGAGCACGAGCTCAACCAGCTGCTCAACGAGGCCCTGCTTGAGCGAGAGTCCGCCCAA  
GTGTAAAGAAGAGAAACACCTTCTTGTTCATGCGGTTTCATGGACCCCGAGATGGAAACCCGCTACTCGGTGG  
AGAAGGAGAAGCAGAGTGGGGCTGCCTTACGCTGCTCCTGCGTCGTCCTGCTCTGCACGGCCCTGGTTCGAGATAC  
TCATCGACCCCTGGCTAATGACAACTATGTGACCTTCATGGTGGGGGAGATTCTGCTCCTCATCCTGACCATCT  
GCTCCCTGGCTGCCATCTTTCCCCGGGCCTTTTCTAAGAAGCTTGTGGCCTTCTCAACTTGGATTGACCGGACCC  
GCTGGGCCAGGAACACCTGGGCCATGCTCGCCATCTTCATCCTGGTGATGGCAAATGTCGTGGACATGCTCAGCT  
GTCTCCAGTACTACACGGGACCCAGCAATGCAACGGCAGGGATGGAAACGGAGGGCAGCTGCCTGGAGAACCCCA  
AGTATTACAACATATGTGGCCGTGCTGTCCCTCATCGCCACCATCATGCTGGTGCAGGTGAGCCACATGGTGAAGC  
TCACGCTCATGCTGCTCGTCGAGGCGCCGTGGCCACCATCAACCTCTATGCCTGGCGTCCCGTCTTTGATGAAT  
ACGACCACAAGCGTTTTTCGGGAGCACGACTTACCTATGGTGGCCTTAGAGCAGATGCAAGGATTCAACCCCTGGGC  
TCAATGGCACTGACAGGCTGCCCCTGGTGCCTTCCAAGTACTCTATGACGGTGTGGTGTTCCTCATGATGCTCA  
GCTTCTACTACTTCTCCCGCCACGTAGAAAACTGGCACGGACACTTTTCTTGTGGAAGATTGAGGTCCACGACC  
AGAAGGAACGTGTCTATGAGATGCGACGCTGGAACGAGGCCTTGGTCACCAACATGTTGCCTGAGCACGTGGCAC  
GCCATTTCCTGGGGTCCAAGAAGAGAGATGAGGAGCTGTATAGCCAGACGTATGATGAGATTGGAGTCATGTTG  
CCTCCCTGCCCAACTTTGTGACTTCTACACAGAGGAGAGCATCAACAATGGTGGTATTGAGTGTCTGCGTTTCC  
TCAATGAAATCATCTCAGATTTTGACTCTCTCCTGGACAATCCCAAGTTCCGGGTGATCACCAAGATCAAAACCA  
TTGGCAGCACGTATATGGCGGCTTCAGGAGTCACCCCGATGTCAACACCAATGGCTTTGCCAGCTCCAACAAGG  
AAGACAAGTCCGAGAGAGAGCGCTGGCAGCACCTGGCTGACCTGGCCGACTTCGCGCTGGCCATGAAGGATACGC  
TCACCAACATCAACAACCAAGTCCTTCAATAACTTCATGCTGCGCATAGGCATGAACAAAGGCGGGGTTCTGGCTG  
GGGTCATCGGAGCCCGGAAACCACACTACGACATCTGGGGCAATACAGTCAATGTAGCCAGCAGGATGGAGTCCA  
CGGGGTCATGGGCAACATTACGGTATGTCCAGTGGCACAGCTGGCACGTGCTCAGACTCGGCATGAGAACAAAA  
CCGGAACAGTGCTTTCCACGTGCCCTGCCTCCACCCCTGGCCCTGAACAGTAAGTCCAGAGGCAGAGACGTGG  
GGCAAGTGAAAAGAATCTCTGCAATAGCTAGCCTCAGCACAGGAAGAAACACTTCCACCCATCCACAAAATCTG

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**FIGURE 716B**

GGCTGAAGTTCTAGATGCATATGGCCTACCTTTGGGTATGAACCTTCTAATACCTTGTGATCTGTCTCAGTGGCG  
TCTGGCAGAAAAGCTCCACGAAAGGGGCAAAGGGACAGAAGAGCAGGCAGTGGCAGTTTCCAGGTAACAGTGCTG  
CCACCCAGGTGACCATGGCCATCCTAGGAGAGAAGTCTCTGGATGAGAGGAGGCCCCCAGCCAGTCACTCCAGGG  
TTCTCCTTCCCACCCGCTGCTCGCCACGGGTGGAAGGGCTTGGCCC

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**FIGURE 717**

GCCGCGGCACCAGGGCGCGCAGCCGGGCGGGCCGACCCACCGGCCATACGGTGGAGCCATCGAAGCCCCACC  
CACAGGCTGACAGAGGCACCGTTACCAGAGGGCTCAACACCGGGATCTATGTTTAAAGTTTAACTCTCGCCTCC  
AAAGACCACGATAATTTCCTTCCCCAAAGCCAGCAGCCCCCAGCCCCGCGCAGCCCCAGCCTGCCTCCCGGCGC  
CCAGATGCCCCGCCATGCCCTCCAGCGGCCCCGGGGACACCAGCAGCTCTGCTGCGGAGCGGGAGGAGGACCGAAA  
GGACGGAGAGGAGCAGGAGGAGCCGCGTGGCAAGGAGGAGCGCCAAGAGCCCAGCACCACGGCACGGAAGGTGGG  
GCGGCCTGGGAGGAAGCGCAAGCACCCCCCGGTGGAAAGCGGTGACACGCCAAAGGACCCTGCGGTGATCTCCAA  
GTCCCCATCCATGGCCCAGGACTCAGGCGCCTCAGAGCTATTACCCAATGGGGACTTGGAGAAGCGGAGTGAGCC  
CCAGCCAGAGGAGGGGAGCCCTGCTGGGGGGCAGAAAGGGCGGGGCCCCAGCAGAGGGAGAGGGTGCAGCTGAGAC  
CCTGCCTGAAGCCTCAAGAGCAGTGGAAAATGGCTGCTGCACCCCCAAGGAGGGCCGAGGAGCCCCTGCAGAAGC  
GGGCAAAGAACAGAAGGAGACCAACATCGAATCCATGAAAATGGAGGGCTCCCGGGGCGGGCTGCGGGGTGGCTT  
GGGCTGGGAGTCCAGCCTCCGTACGCGGCCCATGCCGAGGCTCACCTTCCAGGCGGGGGACCCCTACTACATCAG  
CAAGCGCAAGCGGGACGAGTGGCTGGCAGCCTGGAAAAGGGAGGCTGAGAAGAAAGCCAAGGTCAATTGCAGGAAT  
GAATGCTGTGGAAGAAAACAGGGGCCCGGGGAGTCTCAGAAGGTGGAGGAGGCCAGCCCTCCTGCTGTGCAGCA  
GCCCCACTGACCCCGCATCCCCACTGTGGCTACCACGCCTGAGCCCGTGGGGTCCGATGCTGGGGACAAGAATGC  
CACCAAAGCAGGCGATGACGAGCCAGAGTACGAGGACGGCCGGGGCTTGGCATTGGGGAGCTGGTGTGGGGGAA  
ACTGCGGGGCTTCTCCTGGTGGCCAGGCCGCGATTGTGTCTTGGTGGATGACGGGCGGAGCCGAGCAGCTGAAGG  
CACCCGCTGGGTCAATGTGGTTCGGAGACGGCAAATTCTCAGTGGTGTGTGTTGAGAAGCTGATGCCGCTGAGCTC  
GTTTTGCAGTGCGTTCCACCAGGCCACGTACAACAAGCAGCCCATGTACCGCAAAGCCATCTACGAGGTCTTGCA  
GGTGGCCAGCAGCCGCGCGGGGAAGCTGTTCCCGGTGTGCCACGACAGCGATGAGAGTGACACTGCCAAGGCCGT  
GGAGGTGCAGAACAAAGCCCATGATTGAATGGGCCCTGGGGGGCTTCCAGCCTTCTGGCCCTAAGGGCCTGGAGCC  
ACCAGAAGAAGAGAAGAATCCCTACAAAGAAGTGTACACGGACATGTGGGTGGAACCTGAGGCAGCTGCCTACGC  
ACCACCTCCACCAGCCAAAAAGCCCCGGAAGAGCACAGCGGAGAAGCCCAAGGTCAAGGAGATTATTGATGAGCG  
CACAAGAGAGCGGCTGGTGTACGAGGTGCGGCAGAAAGTGCCGGAACATTGAGGACATCTGCATCTCCTGTGGGAG  
CCTCAATGTTACCCTGGAACACCCCCTCTTCGTTGGAGGAATGTGCCAAAACCTGCAAGAACTGCTTTCTGGAGTG  
TGCGTACCAGTACGACGACGACGGCTACCAGTCCCTACTGCACCATCTGCTGTGGGGGCCGTGAGGTGCTCATGTG  
CGGAAACAACAACCTGCTGCAGGTGCTTTTTCGCTGGAGTGTGTGGACCTCTTGGTGGGGCCGGGGGCTGCCAGGC  
AGCCATTAAGGAAGACCCCTGGAAGTGTACATGTGCGGGCACAAGGGTACCTACGGGCTGCTGCGGCGGCGAGA  
GGACTGGCCCTCCCGGCTCCAGATGTTCTTCGCTAATAACCACGACCAGGAATTTGACCCTCCAAAGGTTTACCC  
ACCTGTCCCAGCTGAGAAGAGGAAGCCCATCCGGGTGCTGTCTCTCTTTGATGGAATCGCTACAGGGCTCCTGGT  
GCTGAAGGACTTGGGCATTAGGTGGACCGCTACATTGCCTCGGAGGTGTGTGAGGACTCCATCACGGTGGGCAT  
GGTGCGGCACCAGGGGAAGATCATGTACGTGCGGGACGTCCGAGCGTCACACAGAAGCATATCCAGGAGTGGGG  
CCCATTCGATCTGGTGATTGGGGGAGTCCCTGCAATGACCTCTCCATCGTCAACCCTGCTCGCAAGGGCCTCTA  
CGAGGGCACTGGCCGGCTCTTCTTTGAGTTCTACCGCCTCCTGCATGATGCGCGGCCCAAGGAGGGAGATGATCG  
CCCCCTTCTTCTGGCTCTTTGAGAATGTGGTGGCCATGGGCGTTAGTGACAAGAGGGACATCTCGCGATTTCTCGA  
GTCCAACCCTGTGATGATTGATGCCAAAGAAGTGTGAGCTGCACACAGGGCCCGCTACTTCTGGGGTAACCTTCC  
CGGTATGAACAGGCCGTTGGCATCCACTGTGAATGATAAGCTGGAGCTGCAGGAGTGTCTGGAGCATGGCAGGAT  
AGCCAAGTTCAGCAAAGTGAGGACCATTACTACGAGGTCAAACCTCATAAAGCAGGGCAAAGACCAGCATTTTCC  
TGTCTTCATGAATGAGAAAGAGGACATCTTATGGTGCAGTGAATGGAAAGGGTATTTGGTTTCCCAGTCCACTA  
TACTGACGTCTCCAACATGAGCCGCTTGGCGAGGCAGAGACTGCTGGGCGCGTCAATGGAGCGTGCCAGTCATCCG  
CCACCTCTTCGCTCCGCTGAAGGAGTATTTTTCGCTGTGTGTAAGGGACATGGGGGCAAACCTGAGGTAGCGACACA  
AAGTT



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**FIGURE 718**

MPAMPSSGPGDTSSSAAEREEDRKDGEEQEEPRGKEERQEPSTTARKVGRPGRKRKHPPVESGDTPKDPAVISKS  
PSMAQDSGASELLPNGDLEKRSEFQPEEGSPAGGQKGGAPAEGEAAETLPEASRAVENGCTPKEGRGAPAEAG  
KEQKETNIESMKMEGSRGRLRGGLGWESSLRQRPMPRLTFQAGDPYIISKRRDEWLARWKREAEKKAKVIAGMN  
AVEENQGPGESQKVEEASPPAVQQPTDPASPTVATTPEPVGSDAGDKNATKAGDDEFEYEDGRGFGIGELVWGKL  
RGFSWWPGRIVSWWMTGRSRAAEGTRWVMWFGDGKFSVVCVEKLMPLSSFCSAFHQATYNKQPMYRKAIYEV LQV  
ASSRAGKLPVCHDSDESDTAKAVEVQNKPMIEWALGGFQPSGPKGLEPPEEEKNPYKEYVTDMWVEPEAAAYAP  
PPPAKKPRKSTAEKPKVKEIIDERTRERLVYEVQRKCRNIEDICISCGSLNVTLEHPLFVGGMCQNCKNCFLECA  
YQYDDDGYSYCTICCGGREVL MCGNNCCRCFCVECVDLLVGPGAAQAAIKEDPWNCYMCGHKGTYGLLRRED  
WPSRLQMFFANNHDQEFDPKVPFPVPAEKRPPIRVLSLFDGIATGLLV LKDLGIQVDRYIASEVCEDSITVGMV  
RHQGKIMYVGDVRSVTQKHIEWGFDFLVIGGSPCNDLSIVNPARKGLYEGTGRLFFEFYRLLDARPKEGDDRP  
FFWLFENVVAMGVSDKRDISRFLSNPVMIDAKEVSAHRARYFWGNLPGMNRPLASTVNDKLELQECLEHGRIA  
KFSKVRTITTRSNSIKQGDQHFVFMNEKEDILWCTEMERVFGFPVHYTDVSNMSRLARQRLGRSWSVPVIRH  
LFAPLKEYFACV

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**FIGURE 719**

CTGACCGCCGGGGGGTGTCCCCGGGACGTAGCGCCGCGGAGAGGAAGCGGCAAAGGGGACC**ATG**CGGCGCCTGAC  
TCGTCGGCTGGTTCTGCCAGTCTTCGGGGTGCTCTGGATCACGGTGCTGCTGTTCTTCTGGGTAACCAAGAGGAA  
GTTGGAGGTGCCGACGGGACCTGAAGTGCAGACCCCTAAGGTTTGGTCCTTGTTTTTCAAGGTGGCTGGGATGAG  
CCCTTGGGCGCCTCAGGTGCCGTGTATCACCCACTCCTCCCTACCAAAGAGGGCATCTTCCTACAGGAGGACACCT  
TGCTGTATGTCAATTTCCCATGTCTCTTGCAAGAAGCTCAGTTCCATTTCAGACTCAGGTCTTTCTTCAAGTCAG  
ATGCACACTGCTGGTGTATTGCACGGACCTTCCACCCACTAGCATCATCATCACCTTCCACAACGAGGCCCGCTC  
CACGCTGCTCAGGACCATCCGCAGTGTATTAAACCGCACCCCTACGCATCTGATCCGGGAAATCATATTAGTGGA  
TGACTTCAGCAATGACCCTGATGACTGTAAACAGCTCATCAAAATTGCCCAAGGTGAAATGCTTGCGCAATAATGA  
ACGGCAAGGTCTGGTCCGGTCCCGGATTCTGGGGCGCTGACATCGCCCAGGGCACCCTCTGACTTTCTCTCGACAG  
CCACTGTGAGGTGAACAGGGACTGGCTCCAGCCTCTGTTGCACAGGGTCAAAGAGGACTACACGCGGGTGGTGTG  
CCCTGTGATCGATATCATTAACTGGACACCTTCACCTACATCGAGTCTGCCTCGGAGCTCAGAGGGGGGTTTGA  
CTGGAGCCTCCACTTCCAGTGGGAGCAGCTCTCCCCAGAGCAGAAGGCTCGGCGCCTGGACCCACGAGCCCAT  
CAGGACTCCTATCATAGCTGGAGGGCTCTTCGTGATCGACAAAGCTTGTTGATTACCTGGGGAAATATGATAT  
GGACATGGACATCTGGGGTGGGGAGAACTTTGAAATCTCCTTCCGAGTGTGGATGTGCGGGGGCAGCCTAGAGAT  
CGTCCCCTGCAGCCGAGTGGGGCACGTCTTCCGGAAGAAGCACCCCTACGTTTTCCCTGATGGAAATGCCAACAC  
GTATATAAAGAACACCAAGCGGACAGCTGAAGTGTGGATGGATGAATACAAGCAATACTATTACGCTGCCCGGCC  
ATTGCCCCCTGGAGAGGCCCTTCGGGAATGTTGAGAGCAGATTGGACCTGAGGAAGAATCTGCGCTGCCAGAGCTT  
CAAGTGGTACCTGGAGAATATCTACCCTGAACTCAGCATCCCCAAGGAGTCTCCATCCAGAAGGGCAATATCCG  
ACAGAGACAGAAGTGCCTGGAATCTCAAAGGCAGAACAACCAAGAAACCCCAAACCTAAAGTTGAGCCCCCTGTGC  
CAAGGTCAAAGGCGAAGATGCAAAGTCCCAGGTATGGGCCTTCACATACACCCAGCAGATCCTCCAGGAGGAGCT  
GTGCCTGTGATCATCACCTTGTTCCCTGGCGCCCCAGTGGTTCTTGTCCTTTGCAAGAATGGAGATGACCGACA  
GCAATGGACCAAACTGGTTCCACATCGAGCACATAGCATCCACCTCTGCCTCGATACAGATATGTTTCGGTGA  
TGGCACCGAGAACGGCAAGGAAATCGTCGTCAACCCATGTGAGTCTCACTCATGAGCCAGCACTGGGACATGGT  
GAGCTCT**TGAGG**ACCCCTGCCAGAAGCAGCAAGGGCCATGGGGTGGTGCTTCCCTGGACCAGAACAGACTGGAAA  
CTGGGCAGCAAGCAGCCTGCAACCACCTCAGACATCCTGGACTGGGAGGTGGAGGCAGAGCCCCCAGGACAGGA  
GCAACTGTCTCAGGGAGGACAGAGGAAAACATCACAAGCCAATGGGGCTCAAAGACAAATCCACATGTTCTCAA  
GGCCGTTAAGTTCCAGTCTTGCCAGTCATTCCCTGATTGGTATCTGGAGACAGAAACCTAATGGGAAGTGTTTA  
TTGTTCCTTTTCTACAAAGGAAGCAGTCTCTGGAGGCCAGAAAGAAAAGCCTTCTTTTTTCACTAGGCCAGGACT  
ACATTGAGAGATGAAGAATGGAGGTTGTTTCCAAAAGAAATAAAGAGAACTTAGAAGTTGTCTCTGG

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**FIGURE 720**

MRRLTRRLVLPVFGVLWITVLLFFWVTKRKLEVPTGPEVQTPKVWSLFFKVAGMSPWAPQVPVSPTPPYQRGHLPTGGHLAVCHFPCLLQEAQFHLQTQVFLQVRCTLLVYCTDLPPTSIIITFHNEARSTLLRTIRSVLNRTPTHIREIILVDDFSNDPDDCKQLIKLPKVKCLRNNERQGLVRSRIRGADIAQGTTLTFLDSHCEVNRDWLQPLLHRVKEDYTRVVCVIDIINLDTFTYIESASELRGGFDWSLHFQWEQLSPEQKARRLDPTPIRTPIIAGGLFVIDKAWFDYLGKYDMDMDIWGGENFEISFRVWMCGBSLEIVPCSRVGHVFRKKHPYVFPDGNANTYIKNTKRTAEVWMDEYKQYYAARPFALERPFGNVESRLDLRKNLRCQSFKWYLENIYPELSIPKESSIQKGNIRQRQKCLESQRQNNQETPNLKLSPCAKVKGEDAKSQVWAFTYTQQILQEELCLSVITLFPGAPVVLVLCKNGDDRQQWTKTGSHIEHIAASHLCCLDTDMFGDGTENGKEIVVNPCESSLMSQHWDVSS

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**FIGURE 721**

GGTGTTCACTCAACTTGGATCTGTGCTGAAAAATTGTGACATTTTCAGTACATCTGGTAGAGGGTACAGCTTTTAT  
CTTGACATGAATTTTTTGATGTTCTTCCTGTGCATAAATTTTCAGAAAACACCACAGGGATGGCGAGAAGTATTT  
GTTGACATTGATCCACAGGTTTCTGATAAACTGAGGTTTGTGTTTGGCACCTTCTGCCACCCACAGCAGAAGCCTTC  
ATACAACATGACGAAACAAGGGATCATGTTGAAGTGTGTCCTGATGCTGGTGTTATCATCGAGGAACCTTTCTCAA  
CGCATTGCATTAACTGGAGGTGCTGCACTGGTTGCTGATTATGGTCATGATGGAACAAAGACAGATACCTTCAGA  
GGGTTTTGCGACCACAAGCTTCATGATGTCTTAATTGCCCCAGGAACAGCAGATCTAACAGCTGATGTGGACTTC  
AGTTATTTGCGAAGAATGGCACAGGGAAAAGTAGCCTCTCTGGGCCCAATAAAACAACACACATTTTTAAAAAAT  
ATGGGTATTGATGTCCGGCTGAAGGTTCTTTTAGATAAATCAAATGAGCCATCAGTGAGGCAGCAGTTACTTCAA  
GGATATGATATGTTAATGAATCCAAAGAAGATGGGAGAGAGATTTAACTTTTTTGCCCTTGCTACCTCATCAGAGA  
CTTCAAGGTGGAAGATATCAGAGGAATGCACGTCAGTCAAAACCCCTTTGCATCCGTTGTAGCTGGGTTTAGTGAA  
CTTGCTTGGCAGTGATATTTTCAGCTTGGACATTTTACCCTTCAGTCGGCCCAAGAAATCAAAATAAAGGAAACAC  
ATTTTCATATACTGCAGGTAAACAAAAGTCAAAGTATTTTATCTTTTCACAGCAAGAACAGTCCATGTTGTATATAA  
TACAACCAACATTATAGAACTTTTAGGGTTGTGACTGGCTTTGGTGCAAATGTGTGCTCAAGCTAATAAGTTATT  
GTGAAACTGAGTTTTCCTTTAACTTACAAAGCTAGTTGCCATATTTCTATTTTATTTTAAAAAGTAAACATGCGGC  
TGGGCGTGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGGCATATCACCTGAGGTCAGCAGT  
TAAAGACCAGCTGACCAAAATGGAGAAACCCCATCTCTACTAAAAATACAAAACCTAGCCGGGTATGGTGGTACA  
TGCCTGTAATCCCAGC

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**FIGURE 722**

MAQGKVASLGPIKQHTFLKNMGIDVRLKVLLDKSNEPSVRQQLQGYDMLMNPKKMGERFNFFALLPHQRLQGR  
YQRNARQSKPFASVVAGFSELAWQ

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**FIGURE 723**

CTTCTCTCGCCAGGCATCCTCGTGGAAGTGACATCGTCTTTAAACCCTGCGTGGCAATCCCTGACGCACCGCCGT  
GATGCCCCAGGGAAGACAGGGCGACCTGGAAGTCCAACACTACTTCCTTAAGATCATCCAACACTATTGGATGATTATCC  
AAAATGTTTCATCGTGGGAGCAGACAATGTGGGCTCCAAGCAGATGCAGCAGATCCGCATGTCCCTTCGCGGGAA  
GGTCGTGGTGCTGATGGGCAAGAACACCATGATGCGCAAGGCCATCCGAGGGCACCTGGAAAACAACCCAGCTCT  
GGAGAAACTGCTGCCTCATATCTGGGGGAATGTGGGCTTTGTGTTCACCAAGGAGGACCTCACTGAGATCAGGGA  
CATGTTGCTGGCCAATAAGGTGCCAGCTGCTGCCCCGTGCTGGTGCCATTGCCCCATGTGAAGTCACTGTGCCAGC  
CCAGAACACTGGTCTCGGGCCCGAGAAGACCTCCTTTTTCCAGGCTTTAGGTATCACCCTAAAATCTCCAGGGG  
CACCATTGAAATCCTGAGTGATGTGCAGCTGATCAAGACTGGAGACAAAGTGGGAGCCAGCGAAGCCACGCTGCT  
GAACATGCTCAACATCTCCCCCTTCTCCTTTGGGCTGGTCAATCCAGCAGGTATTCGACAATGGCAGCATCTACAA  
CCCTGAAGTGCTTGATAAAACAGAGGAACTCTGCATTCTCGCTTCCTGGAGGGTGTCCGCAATGTTGCCAGTGT  
CTGTCTGCAGACTGGCTACCCAACTGTTGCATCAGTACCCCATTTCTATCATCAACGGGTACAAACGAGTCCTGGC  
CTTGTCTGTGGAGACGGATTACACCTTCCCACTTGCTGAAAATGTCAAGGCCTTCTTGGCTGATCCATCTGCCTT  
TGTGGCTGCTGCCCCGTGTTGGCTGCTGACACCACAGCTGCTCCTGCTGCTGCTGCAGCCCCAGCTAAGGTTGAAGC  
CAAGGAAGAGTCGGAGGAGTCGGACGAGGATATGGGATTTGGTCTCTTTGACTAATACCAAAAAGCAACCAACT  
TAGCCAGCTTTATTTGCAAAACAAGGAAATAAAGGCTTACTTCTTT

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**FIGURE 724**

MPREDRATWKSNYFLKIIQLDDYPKCFIVGADNVGSKQMQQIRMSLRGKVVVL MGKNTMMRKAIRGHLENNPAL  
EKLLPHIWGNVGFVFTKEDLTEIRDMLLANKVPAAARAGAIAPCEVTVPAQNTGLGPEKTSFFQALGITTKISRG  
TIEILSDVQLIKTGDKVGASEATLLNMLNISPFSGFLVIQQVFDNGSIYNPEVLDKTEETLHSRFLEGVRNVASV  
CLQTYPTVASVPHSIINGYKRVLALSVETDYTEFLAENVKAFLADPSAFVAAAPVAADTTAAPAAAAAPAKVEA  
KEESESEDEDMGFGLFD

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**FIGURE 725**

GTCTTTAAACCCCTGCGTGGCAATCCCTGACGCACCGCCGTGATGCCCAGGGAAGACAGGGCGACCTGGAAGTCCA  
ACTACTTCCTTAAGATCATCCAACCTATTGGATGATTATCCAAAATGTTTCATCGTGGGAGCAGACAATGTGGGCT  
CCAAGCAGATGCAGCAGATCCGCATGTCCCTTCGCGGGAAGGTCGTGGTGCTGATGGGCAAGAACACCATGATGC  
GCAAGGCCATCCGAGGGCACCTGGAAAACAACCCAGCTCTGGAGAACTGCTGCCTCATATCTGGGGGAATGTGG  
GCTTTGTGTTACCAAGGAGGACCTCACTGAGATCAGGGACATGTTGCTGGCCAATAAGGTGCCAGCTGCTGCCC  
GTGCTGGTGCCATTGCCCCATGTGAAGTCACTGTGCCAGCCCAGAACACTGGTCTCGGGCCCCGAGAAGACCTCCT  
TTTTCCAGGCTTTAGAGTGATGTGCAGCTGATCAAGACTGGAGACAAAGTGGGAGCCAGCGAAGCCACGCTGCTG  
AACATGCTCAACATCTCCCCCTTCTCCTTTGGGCTGGTCATCCAGCAGGTATTCGACAATGGCAGCATCTACAAC  
CCTGAAGTGCTTGATAAAACAGAGGAACTCTGCATTCTCGCTTCCTGGAGGGTGTCCGCAATGTTGCCAGTGTC  
TGTCTGCAGACTGGCTACCCAACCTGTTGCATCAGTACCC



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**FIGURE 726**

CTGCGTGGCAATCCCTGACGCACCGCCGTGATGCCCAGGGAAGACAGGGCGACCTGGAAGTCCAACACTTTCCTT  
AAGATCATCCAACATATTGGATGATTATCCAAAATGTTTCATCGTGGGAGCAGACAATGTGGGCTCCAAGCAGATG  
CAGCAGATCCGCATGTCCCTTCGCGGGAAGGTCGTGGTGCTGATGGGCAAGAACACCATGATGCGCAAGGCCATC  
CGAGGGCACCTGGAAAACAACCCAGCTCTGGAGAACTGCTGCCTCATATCTGGGGGAATGTGGGCTTTGTGTTC  
ACCAAGGAGGACCTCACTGAGATCAGGGACATGTTGCTGGCCAATAAGGTGCCAGCTGCTGCCCCGTGCTGGTGCC  
ATTGCCCCATGTGAAGTCACTGTGCCAGCCCAGAACACTGGTCTCGGGCCCGAGAAGACCTCCTTTTTCCAGGCT  
TTAGGTATCACCCTAAAATCTCCAGGGGCACCATTGAAATCCTGACAGGTATTCGACAATGGCAGCATCTACAA  
CCCTGAAGTGCTTGATAAAACAGAGGAACTCTGCATTCTCGCTTCCTGGAGGGTGTCCGCAATGTTGCCAGTGT  
CTGTCTGCAGACTGGCTACCCAACCTGTTGCATCAGTACCCCATTCATCATCAACGGGTACAAACGAGTCCTGGC

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**FIGURE 727**

CCTCTAGCTTAGCGAGCGCTGGAGTTTGAAGAGCGGGCAGTGGCTGCACACGCCAAACTTTCCCTATGGCTTCGG  
TGACCAGGGCCGTGTTTGGAGAGCTGCCCTCGGGAGGAGGGACAGTGGAGAAGTTCCAGCTGCAGTCAGACCTCT  
TGAGAGTGGACATCATCTCCTGGGGCTGCACGATCACAGCCCTAGAGGTCAAAGACAGGCAGGGGAGAGCCTCGG  
ACGTGGTGCTTGGCTTCGCCGAGTTGGAAGGATACCTCCAAAAGCAGCCATACTTTGGAGCAGTTATTGGGAGGG  
TGGCCAACCGAATCGCCAAAGGAACCTTCAAGGTGGATGGGAAGGAGTATCACCTGGCCATTAACAAGGAACCCA  
ACAGTCTGCATGGAGGAGTCAGAGGGTTTGATAAAGTGCTCTGGACCCCTCGGGTGCTGTCAAATGGCGTCCAGT  
TCTCGCGCATCAGTCCAGATGGTGAAGAAGGCTACCCCGGAGAGTTAAAAGTCTGGGTGACATACACCCTGGATG  
GCGGAGAGCTCATAGTCAACTACAGAGCACAAGCCAGTCAGGCCACACCAGTCAACCTGACCAACCATTCTTACT  
TCAACCTGGCAGGCCAGGCTTCCCCAAATATAAATGACCATGAAGTCACCATAGAAGCGGATACTTATTTGCCTG  
TGGATGAAACCCCTGATTCTACAGGAGAAGTTGCCCCAGTGCAAGGCACTGCATTGACCTGAGAAAGCCAGTGG  
AGCTTGGAAAACACCTGCAGGACTTCCATCTCAATGGTTTTTGACCACAATTTCTGTCTGAAGGGATCTAAAGAAA  
AGCATTTTTGTGCAAGGGTGCATCATGCTGCAAGCGGGCGGGTACTAGAAGTATACACCACCCAGCCCCGGGTCC  
AGTTTTACACGGGCAACTTCTGGATGGCACATTAAAGGGCAAGAATGGAGCTGTCTATCCCAAGCACTCCGGTT  
TCTGCCTGGAGACTCAGAACTGGCCTGATGCAGTCAATCAGCCCCGTTCCCTCCTGTGCTGCTGAGGCCTGGTG  
AGGAGTATGACCACACCACCTGGTTCAAGTTTTCTGTGGCTTAAAGGAAGTGTGAAGATATGATCCAGTCCAGGGC  
TAGGCTCAGCCACCTGTCTCCTGTCCAGAAAAAAGGTGAAGATTAAGAAGCTTTCAGAATGATTCTATGGATTAA  
AATCATACAAATGGTGGCTGTTCTGAGAATCAGTCTGGGTATTGATTTCTTTTCCAGTGAAGTCCAGGCCA  
TGTCTAATGACCAGCTCGATTCCCTGTGCAGTTCAGAGAGCAAGTGAACCCAACCAACAATGTCGTCATCTAAGC  
CCTGACCCTAGCCAGGGACTCCCATGCTGCTGTTGGCTCCATCTCTCCACACTGCCTCTTTCTTTTCAACTTTTT  
GCCCTTCCTTTTCTTTAAAGCTATTCTCACATTGCTTTTATTTCTCTCCTCCTTCACCTCCAACCACTGTCAGCAGC  
ACTCTGGAGTTTTCAAATGTCACATTAGCCTCACCTGCATGCTAGGAGATGGACCTGTCTCTATACAGCAGTAG  
ATGATTGATAAGTGAGGAACTGAGGCTTACAGAGGTTGAAGACCAACAAGCTAATAAATAAAAAGTTGAGGCCG  
GGCACGGTGGCTCACGCCTGTAATCCCAGCACTTTGGAAGGCCGAGGCAGGCGGATCACGAGGTGAGGAGATCGA  
GACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACATAAAAAAATTAGCTGGGTGTGGTAGCACGCACCCGTAG  
TTCCAGCTACTTGGGAGGCTGAAGCAGGAGAATCGCTTGAACCTGGGAGGTGGAGGTTGCAGTGAGCCGAGATCA  
TGCCACTGCACTGGGCAACAGAGCAAACTCGATCTCAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 728**

MASVTRAVFGELPSGGGTVEKFQLQSDLLRVDIISWGCTITALEVKDRQGRASDVVLGFAELEGYLQKQPYFGAV  
IGRVANRIAKGTFKVDGKEYHLAINKEPNSLHGGVVRGFDKVLWTPRVLSNGVQFSRISPDGEEGYPGELKVWVTY  
TLDGGELIVNYRAQASQATPVNLTNHSYFNLAGQASPNINDHEVTIEADTYLPVDETLIPTGEVAPVQGTAFDLR  
KPVELGKHLQDFHLNGFDHNFCLKGSKEKHFCARVHHAASGRVLEVYTTQPGVQFYTGNFLDGTLKGKNGAVYPK  
HSGFCLETQNWPDVNQPRFPPVLLRPGEEDHTTWFKFSVA

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**FIGURE 729**

GACTTCAGGAAAAATCAACCCAGCACCAGCAGCTACCAACCACCATTCCATCTCTTCACTTGAACAGCATTAGTT  
AAGTCCAGATGTGGGAACCCCTTCTCTTGAAGAAGTTCCTAATTGTGTCTCAGACCGGTGTAAACAAACCAGCCA  
GCCGCCACCTTGCTAAACCTATAAGCTTTTTAAAATCCAATATATTCTGCCAAGAATATGCCTTGATAGTTAGCC  
CTCAGCCCATAGGTGTTTTTTGTTTTTAAACAGAATTATATATGTCTGGGGGTGAAAAAACCCCTGCATTCCAAA  
GGTCCATACTGGTTACTTGGTTTCATTGCCACCACTTAGTGGATGTTTCAGTTTAGAACCATTTTGTCTGCTCCCT  
CTGGAAGCCTTGCGCAGAGCTTACTTTGTAATTGTTGGAGAATAACTGCTGAATTTTGTAGCTGTTTTGAGTTGAT  
TCGCACCACTGCACCACAACCTCAATATGAAAACCTATTTAACTTATTTATTATCTTGTGAAAAGTATACAATGAAA  
ATTTTGTTTACTACTGTATTTATCAAGTATGATGAAAAGCAATAGATATATATTCTTTTATTATGTTAAATTATGA  
TTGCCATTATTAATCGGCAAAATGTGGAGTGTATGTTCTTTTACAGTAATATATGCCTTTTGTAACTTCACTTG  
GTTATTTTATTGTAAATGAGTACAAAATCTTAATTTAAGAGATTGTATGTAATTTTATTTTCAATTAATTTCTTT  
CCTTGTTTACGTAAATTTTGAAAGATTGCATGATTTCTTGACAGAAATCGATCTTGATGCTGTGGAAGTAGTTTG  
AGGAACATCCTATGAGTTTTCTTAGAATGTATAAAGGTTGTAGCCCATCCAACCTTCAAAGAAAAAATGACCACA  
TACTTTGCAATCAGGCTGAAATGTGGCATGCTTTTCTAATTTCAACTTTATAAACTAGCAAAAAGTGTGTGCTT  
ATTCCACCAGTTCTACTGTGACATACTCGAGTATAAAGACATGTAGCAATAACGGGGAGTGGGGGGGAGTCTCA  
CAGTGCCCTTTGGAAGGGCCCGAAGTTGCCTTAAATCTTCCTCAACCAATAAGTATTTTATTAGTGCTTGAGAGA  
ATCTGAATGTAGGATGGGTTCAACTGCACAAAAGGAAAAGATTTTTTACCCTTTTTTATATAGATATAAAGTGA  
AGCAACCGCCTTAGTGCTGAAATATGTAGTACATGAATATGCCTTGTTTAATTACAGAAAATTCCTTCCTGGACA  
GCAGATGAATGAGCGGTAGCTTTAGTTTGTACGTAGGTACAGTTGGAGCACTATATGTACTCTCTGGACTACTTT  
GGACAGAAGTAGGTTTTTGAATGTAACAAGATAAGTCAACTTGAGTTGTAATATATTTTGGGGAATCAGCTCACT  
ACAAATTGTGACTGTAAACATTGTACTGTAAATGTTTTGTAGTT

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**FIGURE 730**

MWEPFSWKKFLIVSQTGVNKPASRHLAKPISFLKSNIFCQEYALIVSPQPIGVFCFLTELYMSGGEKTLAFQRSI  
LVTWFHCHHLVDVQFRILSAPSGSLAQSLCNCWRITAEFLAVLS

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**FIGURE 731**

CCTGATTCTAGGCTGGTCACTACTCCGAGCCTGTGACGTTTGC GG CAGCCAGGCCGTCGACGATGCCCAGTGAAA  
CTCTCTGGGAAATTGCAAAAGCTGAAGTGAAAAAAGGGGAATTAATGGAAGTGAAGGTGATGGAGCTGAAATTG  
CAGAAAAATTTGTTTTCTTCATTGGCAGTAAAAATGGGGGAAAGACTACTATTATTCTAAGGTGTCTTGACAGAG  
ATGAACCACCAAAACCAACCTTAGCTTTGGAATATACATATGGAAGAAGAGCAAAAGGGCACAACACACCAAAAG  
ATATCGCTCACTTTTGGGAACTCGGTGGAGGAACCTCTTTATTGGACTTAATCAGCATACCCATCACAGGTGACA  
CCTTACGGACGTTTTCTCTTGTTCTCGTTCTGGATCTTTCAAAACCTAATGATCTCTGGCCCACCATGGAAAATC  
TCTTGCAAGCCACAAAAAGCCATGTAGACAAAGTGATAATGAACTGGGAAAGACAAATGCTAAAGCAGTTTCTG  
AAATGAGACAGAAGATCTGGAATAATATGCCGAAGGATCATCCTGATCATGAATTAATTGACCCATTTCGGGTAC  
CTCTGGTCATAATTGGAAGTAAATATGATGTTTTTCAGGATTTTGAGTCTGAGAAGAGAAAGGTAATATGCAAGA  
CACTTCGATTTGTTGCACATTATTATGGAGCATCATTAATGTTTACCAGTAAATCAGAAGCTCTATTACTAAAAA  
TACGTGGAGTTATCAACCAGTTGGCATTGGCATTGACAAAAGCAAATCAATATGTGTGGATCAGAATAAACCGC  
TGTTTATCACAGCAGGATTGGATTCTTTCGGTCAAATAGGATCTCCTCCTGTTCTCTGAAAATGACATTGGAAAGC  
TTCATGCCCCACTCACCTATGGAGTTGTGGAAAAAAGTGTATGAAAAGCTCTTTCCACCAAAGAGTATTAACACGC  
TGAAAGATATCAAGGACCCTGCGAGAGATCCTCAGTATGCTGAAAATGAAGTCGATGAGATGAGAATTCAGAAGG  
ATCTGGAACCTGGAACAGTACAAAAGAAGTTCTTCCAAGTCTTGGAACAAATCGAGCTTGATTCTTTGAACCTATT  
TCAATTATTGTATATTTATTTCTTCTTTTCCAAATACAAATAAGATTATACTGTGAATTAATTATTGTGGCAATA  
TGTGAAGAAAGTTAAACTGTATAATTTGTTAAAGGACAAGCTGGATTTCTTGGACTAGTGCATCTCCCTGTATAT  
CTTGAAGCTTTTTAAAGGAAAAATTATTGTAGAACCACGTGTAATTTTTTTTTAAATAAAAGAATCTTCTACTA  
CCTACCTCT

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**FIGURE 732**

MPSETLWEIAKAEVEKRGINGSEGDGAEIAEKVFVFFIGSKNGGKTTIILRCLDRDEPPKPTLALEYTYGRRAKGH  
NTPKDIAHFWELGGGTSLLDLISIPITGDTLRTFSLVLVLDLSKPNDLWPTMENLLQATKSHVDKVIMKLGKTNA  
KAVSEMRQKIWNNMPKDHPDHELIDPFPVPLVIIGSKYDVFQDFESEKRVICKTLRFVAHYYGASIMFTSKSEA  
LLLKIRGVINQLAFGIDKSKSICVDQNKPLFITAGLDSFGQIGSPVPENDIGKLHAHSPMELWKKVYEKLFPPK  
SINTLKDIKDPARDPQYAENEVDEMRIQKDLELEQYKRSSSKSWKQIELDS

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**FIGURE 733A**

ACATGCTCCTCCTGTCTTCTGGCGGAGCGTGCTTCCCGCTGCGGGGACGTTGAGCAATGGCAGCCCTGCTGAG  
ATCCGCGCGTTGGTTGCTGCGTGCCGGGGCGGCCCCGCGCTCCCGCTCTCCCTGCGCCTCCTCCCTGGCGGGCC  
GGGCGGCTGCATGCCGCTCCTATCTGCCCCGCGCTCGCGCCGGGCGCGTGGCCGGAGGACTACTGAGCCCAGC  
CAGGCTGTATGCCATTGCTGCCAAAGAAAAAGATATTCAAGAGGAGTCCACTTTTTCTTCTAGGAAGATTTCCAA  
TCAGTTTGATTGGGCTCTAATGAGACTAGATCTTTCTGTTTGAAGAACTGGCCGCATTCCAAAGAAGCTTCTACA  
AAAAGTTTTAATGATACCTGCCGCTCAGGTGGCCTAGGTGGTAGTCATGCCTTGCTTCTACTACGTAGTTGTGG  
TTCTCTCTTGCCCTGAACTAAAGCTTGAAGAGAGAACAGAATTTGCTCATAGGATATGGGACACACTTCAGAAATT  
AGGTGCTGTGTATGATGTGAGTCACTATAATGCTTTACTTAAAGTCTATCTTCAAAATGAATATAAAATTCTCACC  
AACTGATTTCCCTGGCAAAAATGGAGGAAGCAAAACATTCAACCAAATCGAGTGACATACCAGAGATTGATTGCTTC  
TTATTGTAATGTAGGAGATATTGAAGGTGCCAGCAAGATTCTTGATTATGAAAACCTAAGGATCTCCAGTTAC  
AGAGGCAGTATTAGTGCCCTTGTGACAGGGCATGCCAGAGCTGGTGATATGGAGAATGCAGAAAACATTCTCAC  
AGTGATGAGAGATGCCGAATTGAGCCTGGTCCAGACACATACCTCGCATTATTGAATGCATATGCTGAGAAGGG  
CGACATTGACCATGTTAAGCAGACTCTGGAGAAGGTGGAGAAGTCCGAGCTTCACCTTATGGACCGTGATTTACT  
GCAAATTATTTTTAGCTTCAGTAAAGCTGGGTATCCTCAGTATGTCTCAGAAATTTTGAAAAAGTTACATGTGA  
AAGAAGATATATTCCAGATGCAATGAACCTCATTTTACTTTTAGTCACTGAAAAATTGGAAGATGTAGCGTTGCA  
AATTTTACTAGCATGCCCCGTATCAAAGGAAGATGGCCCAAGTGTCTTTGGCAGTTTCTTTTTACAACACTGTGT  
GACTATGAATACGCCTGTGGAGAAGCTAACAGACTACTGTAAGAAGTTAAAGGAAGTCCAGATGCACTCCTTTCC  
TCTGCAGTTACCCCTCCATTGTGCTTTACTCGCCAATAAACTGATTTGGCAAAAGCCTTAATGAAGGCTGTGAA  
GGAGGAAGGTTTTCTATCAGACCTCACTATTTCTGGCCATTGCTAGTTGGACGTCGGAAGGAAAAAATGTTCA  
AGGTATAATTGAAATCCTCAAAGGAATGCAAGAATTGGGAGTACATCCTGATCAGGAAACATATACAGATTATGT  
GATTCATGCTTTGATAGTGTAAGTCAAGCAGAGCCATTTTGCAGGAAATGGATGTCTGTCTGATAGTGATAT  
GTTTTCTCAAGCTGGATTGAGAAGTGAAGCAGCAAATGGGAACCTTAGACTTTGTATTATCATTTTTGAAATCAAA  
TACATTGCCCATCTCGCTGCAGTCTATAAGAAGTAGCCTACTGCTAGGCTTCAGGAGGTCTATGAATATAAATCT  
TTGGAGCGAGATAACAGAATTGTTGTACAAGGATGGACGTTATTGCCAGGAGCCTCGAGGACCGACGGAAGCTGT  
TGGCTATTTTCTTTATAACTTGATTGACAGCATGAGTGACTCAGAGGTACAGGCCAAGGAGGAGCATTGAGACA  
ATACTTCCATCAGCTGGAGAAGATGAATGTAAAAATTCCTGAAAATATCTACAGAGGCATTTCGTAATCTCCTGGA  
AAGCTACCATGTTCTGAATTGATTAAGGATGCTCACTTGTGGTTGAGAGTAAGAATTTAGACTTTCAAAAAAC  
TGTGCAACTTACATCATCTGAATTGGAGTCCACACTTGAAACACTAAAAGCTGAAAATCAACCTATAAGAGATGT  
CCTAAAGCAACTCATATTAGTGCTTTGTTTCAGAAGAGAATATGCAAAAAGCCCTTGAATTGAAAGCAAAATATGA  
ATCCGACATGGTTACTGGTGGCTATGCAGCTTTAATAAATTTATGCTGTGACATGATAAAGTAGAAGATGCCTT  
GAACTTGAAAGAAGAATTTGACCGCTTAGATTCTGCTGTCTTGCCTTGACACCGGCAAGTATGTAGGCCTTGTAAG  
AGTATTGGCAAAGCATGGCAAGCTCCAAGATGCTATTAACATTCTGAAGGAGATGAAAGAGAAGGATGTTCTTAT  
CAAAGATACAACAGCCTTGTCCTTTTTCCACATGCTAAATGGCGCAGCTTTAAGAGGTGAAATTGAAACAGTAAA  
ACAGTTGCATGAAGCCATCGTGACTCTAGGGTTAGCAGAACCATCCACCAACATAAGTTTCCCATTTGGTCACTGT  
ACACTTGGAAGGGCGACCTATCTACTGCTCTTGAGGTGCGCATTGACTGCTATGAAAAGTATAAAGTATTACC  
AAGGATTCATGATGTCTTGTGTAAACTGGTAGAGAAAGCGAGACTGATCTAATTCAGAAAGCAATGGACTTTGT  
GAGCCAAGAACAAGGTGAAATGGTGATGCTCTATGATCTCTTCTTTGCCTTCCTACAAACAGGAAATTACAAAGA  
GGCCAAGAAGATCATTGAGACTCCAGGGATTAGAGCTCGATCTGCAAGGCTTCAGTGGTTTTGTGACAGATGTGT  
TGCAAATAATCAGGTTGAAACTCTGGAATAATTAGTGGAGCTGACACAGAAGCTATTTGAATGTGATAGAGACCA  
GATGTACTACAATCTGCTAAAACGTATAAAATAAACGGTGACTGGCAAAGAGCTGATGCAGTCTGGAATAAAAT  
CCAAGAAGAAAATGTTATTCCTCGTGAAAAGACATTAAGATTATTAGCAGAAATCCTTAGAGAGGGTAACCAGGA  
AGTTCCGTTTGACGTACCTGAGTTGTGGTATGAAGATGAAAACATTCCCTGAATCTTCGTCAGCCTCAACCAC  
AGAACCTGATTTCCAGAAAGATATATTGATTGCCTGCCGATTGAACCAAAAAAAGGGGCATATGATATTTTCT  
GAATGCAAAAGAGCAAAACATTGTGTTAATGCTGAAACCTACAGCAATCTCATTAAATTACTGATGTCAGAAGA  
TTATTTTACACAAGCAATGGAAGTGAAGCATTCGCGGAGACCCACATCAAGGGCTTCACACTGAACGATGCTGC  
CAACAGCCGCTCATCATAACGCAAGTTAGGCGGGATTATTTGAAAGAGGCTGTGACAACACTGAAAAACGATATT  
GGATCAGCAGCAGACCCCTTCTAGGTTAGCAGTGACCCGTGTCATCCAGGCATTGGCCATGAAGGGTGATGTTGA  
AAACATAGAAGTAGTTTCAAGATGTTAAATGGACTCGAAGACTCCATTGGACTTTCAAAAATGGTTTTTCATCAA



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**FIGURE 733B**

TAACATTGCTTTGGCTCAAATAAAGAATAATAACATAGATGCCGCAATAGAAAACATTGAAAATATGCTTACTTC  
AGAGAATAAAGTCATTGAACCCCAATACTTCGGCTTGGCATACTTATTCAGAAAAGTAATAGAGGAGCAGTTGGA  
ACCAGCAGTTGAAAAGAGTAACATCATGGCGGAGAGATTGGCCAATCAGTTTGCAATTTATAAACCTGTCAGTGA  
TTTTTTCCTTCAACTTGTGGATGCAGGCAAGGTGGATGATGCCAGAGCTCTCCTACAGAGATGTGGTGCAATTGC  
TGAACAAACCCCGATTTTGTGTTGTTTCCTCCTTAGGAATTCTAGGAAACAAGGAAAGGCATCAACTGTGAAATC  
TGTGTTAGAATTGATTCCTGAATTAAATGAAAAGGAAGAAGCATAACAATCCCTCATGAAAAGCTATGTCTCAGA  
GAAAGATGTCACATCTGCTAAAGCACTGTATGAACATTTGACTGCAAAGAATACAAAATTGGATGATCTGTTTCT  
AAAGCGTTACGCATCTTTGCTGAAGTATGCTGGAGAGCCTGTCCCTTTCATTGAACCCCTGAAAGCTTTGAATT  
TTATGCACAGCAGCTAAGAAAATTGAGGGAAAACCTCTTCTTGAAATAACCAGGCGATACTTTGTTTTGTATATAT  
TTGTGATTCTGTGTCTACATGTTATTTTGAAGTATATCTGAGGGAAAAATAAATGAAAATTTCTTTATGTACTT  
ATGTATGTGTGATGCATGTTCAAAGTCTTATTGACCATAACTCTGTGCACTTGGTTATTGGACATTTTGGAGTT  
TTTTTCTCTGGGAAAAATCGATAGTGTTCCTTCAATGCTGCTGCTGTGTGAAGCCATACTTTTTTCAGGATTCTT  
CCCTAATTGGCTCTTTGGTTTCCCTGCTCTGTTTCATTTATTTTATTAAATGTTATTCCTTTATTTAAGATTC  
ACTTATTAGTCTGCTGTTTCTCTGAAAAATTTTAGAGCTAGGTATAGTGACCGTGAACCTTTCTAACGCATAATAT  
TCTGTGATACAGCCATTCCGTACATGTGTGAAGTCCTGCATAACTTTCGAACTTTGTTAAATGTTGGCACTAGGA  
GTCATCAGATCTAGGCTTCATCATTTTCCAGTGAGAAGCAGAGACCCAAAGGGCCTGTTACTTGTGCTTGGTCAG  
GGGACTGTCTGTCATGCCCTGGAGGCTCTTCGGGCACACTTCCCCATCTTTCCCTTCTGCCACTGTGGCTTCAAGCA  
CCTCTGTTTCATAGAGCGTCTCTGAAATTGAGTCTCGGTCAIGACTTATCCCGAAGTAGAGCAATGTGTTTCTCT  
CATTGTAGTTTCAGGACTTTGTGAGTACAAGCTCTGCCCTAGGCTTGTACTTTATACTCATATCCTGAAAAGAT  
GTGATTTTCATCTATGAAGGGGTAAAATATTGGTTTTGTATTTAATTGTTTGAATAAAAGTGATCCCTATATTG

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**FIGURE 734**

ATGGGCTCAGGCTACACCAAGGCCGTGTACCGGGTCCGCCTGCCCCGGCGGTGCCGCGGTGGCGCTCAAGGCGGTG  
GACTTTAGCGGCCACGATCTGGGCAGCTGCGTGCGGAGTTTCGGGGTACGGAGGGGCTGCTATCGGCTGGCGGCC  
CACAAGCTGCTTAAGGAGATGGTGCTGCTGGAGCGGCTGCGGCACCCCAACGTGCTGCAGCTCTATGGCTACTGC  
TACCAGGACAGCGAGGACATCCCAGACACCCTGACCACCATCACGGAGCTGGGCGCCCCCTGTAGAAATGATCCAG  
CTGCTGCAAACTTCCTGGGAGGATCGATTCCGAATCTGCCTGAGCCTGGGCGCCCTCCTCCACCACCTGGCCAC  
TCCCCACTGGGCTCCGTCACTCTGCTGGACTTCCGCCCTCGGCAGTTTGTGCTGGTGGATGGGGAGCTCAAAGTG  
ACGGACCTGGATGACGCACGTGTGGAGGAGACGCCGTGTGCAGGCAGCACCGACTGCATACTCGAGTTTCCGGCC  
AGGAACCTTACCCTGCCCTGCTCAGCCCAGGGCTGGTGCGAGGGCATGAACGAGAAGCGGAACCTCTATAATGCC  
TACAGGTTTTTCTTACATACTCCTGCCTCACAGTGCCCCGCCTTCACTGCGTCCTCTGCTGGACAGCATCGTC  
AACGCCACAGGAGAGCTCGCCTGGGGGGTGGACGAGACCCTGGCCCAGCTGGAGAAGGTGCTGCACCTGTACCGG  
AGCGGGCAGTATCTGCAGAACTCCACGGCAAGCAGCAGTACCGAGTACCAGTGTATCCCAGACAGCACCATCCCC  
CAGGAAGACTACCGCTGCTGGCCATCCTACCACCACGGGAGCTGCCTCCTTTCAGTGTTCAACCTGGCTGAGGCT  
GTGGATGTCTGTGAGAGCCATGCCAGTGTGCGGGCCTTTGTGGTCACCAACCAGACCACCTGGACAGGTCGGCAG  
CTGGTCTTTTTCAAGACTGGATGGAGCCAAGTGGTCCCTGATCCCAACAAGACCACATATGTGAAGGCCTCTGGC  
TGA

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**FIGURE 735**

MSGYTKAVYRVRLPGGAVALKAVDFSGHDLGSCVREFGVRRGCYRLAAHKLLKEMVLLERLRHPNVLQLYGYC  
YQDSEDIPDTLTTITELGAPVEMIQLLQTSWEDRFRICLSLGRLLHHLAHSPLGSVTLDDFRPRQFVLVDGELKV  
TDLDDARVEETPCAGSTDCILEFPARNFTLPSCAQGWCEGMNEKRNLNAYRFFFTYLLPHSAPPSLRPLDSIV  
NATGELAWGVDETLAQLEKVLHLYRSGQYLQNSTASSSTEYQCIPDSTIPQEDYRCWPSYHHGSCLLSVFNLAEA  
VDVCESHAQCRAFVVVNQTTWTGRQLVFFKTGWSQVVPDPNKTTYVKASG

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**FIGURE 736**

GCTAACATCCCAGACAGACAGATGTGACCAGGACAAACGTGCAATAATGCCAAATGTTAAAATGTGAGTTTACCA  
GCCTAGCTATGGGACTGCTGGCTCCTAGTCCAGGAATCATGGGGGTATGACTGCCTCTCCAACCCTGTGGGCTGT  
AAGCAAGCTCAGGCTAGTCTCCCCACTGGGGGCTGTGCCCTCCCTGGGACGGTTCCGTGGGCAGCCCCATCACT  
GTGTTCAATAGTGTGAGAATGTAGCTGCGTGGGGACAATCCATCGTGGAGTGTTCTCTCAGCTTAGGTCTGGACA  
GGAGACTTGGCGGGAGATGCTCCAGGATGTGGGTGATTCTGTACCTGGGGAGGCTATCTCTGACCTCCCGACAGG  
GGACACTCCCAGGCCAGCCCAGGGGTCAGGGGCAGAGGTGCACACCTCAGCATGAGCCAAGACTGGGGTCAGGGA  
GCAGGTGTGGTTTGTAGCCAGGACCTGGGGCGGGGGTGGGGCCGGGGCCTTTCTGCCTCATTGCTTTCAATGAAA  
GCCTCAAAGCAGCCAAAACCAGGCTTTCCCCCTTCCTCGAGTTTGAATATCCAGAATCTTTGTACTTCTTGTTG  
GTTAAATTGTTTATTTTTGTAAAAAATAAAATAAAATTAGTTAATAA

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**FIGURE 737**

MWVILYLGRLSLTSRQGTLPGQPRGQGQRCTPQHEPRLGSGSRCGLSQDLGRGWGRGLSASFANESLKAACKTRL  
SPFLEFEYPESFVLLVG

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**FIGURE 738A**

AGATGACTTTGGGAAATTGCTGCTGGCTGAGGCCCTCCTGGAGCAGTGTTTGAAGGAGAACCATGCCAAAATAAA  
AGACTCCATGCCTTTGCTGGAGAAGAATGAGCCGAAGATGAGCGAAGCCAAAAATTATCTAAGCAGTATCCTTAA  
CCATGGGAGGCTCTCGCCACAGTACATGTGTGAGGCCATGCTGATCCTGGGCAAACCTGCATTACGTGGAGGGCTC  
ATACCGAGATGCCATCAGCATGTACGCACGGGCCGGGATTGATGACATGTCCATGGAGAACAAGCCCCGTGTATCA  
GATGCGGCTGCTGTGCGAGGCTTTTGTTCATCAAAGGCCTCTCTCTGGAACGCCTACCCAACCTCCATCGCCTCCCG  
CTTCCGCTGACAGAGAGGGAGGAGGAAGTGATCACCTGTTTTGAGAGGGCCTCCTGGATCGCTCAGGTGTTCTCT  
GCAGGAATTGGAGAAGACCACAAATAACAGCACGTCGAGGCATCTGAAAGGCTGTCAACCGCTTGACTATGAGCT  
CACCTACTTCTGGAAGCTGCCCTCCAGAGCGCCTATGTGAAAAACCTGAAGAAGGGGAACATCGTGAAGGGCAT  
GAGAGAGCTCCGGGAGGTGCTGCGGACTGTGGAGACCAAGCAACTCAGAACTTCAAAGTGATGGCGGCCAAGCA  
CCTGGCGGGGGTCTGCTGCACTCCCTGAGTGAGGAGTGCTACTGGAGCCCCCTGTCCCACCTCTGCCTGAGTT  
CATGGGCAAGGAGGAGAGTTCTTTGCGCACTCAGGCCCTGCGGAAACCTCACCTCTATGAAGGAGACAACCTCTA  
CTGCCCCAAGGACAACATCGAGGAAGCCCTCCTGCTCCTCCTCATCAGCGAATCCATGGCAACTCGAGATGTGGT  
GCTGAGCCGGGTGCCGGAGCAGGAGGAGGACCGGACAGTGAGCTTGCAGAATGCCGCAGCCATCTATGACCTCCT  
GAGCATCACGTTGGGCAGAAGGGGACAGTACGTCATGCTCTCGGAGTGCTGGAGCGAGCCATGAAGTTTGCCTT  
TGGAGAATTTACCTTTGGTACCAGGTGGCCCTCTCCATGGTGGCTTGTGGGAAGTCAGCCTACGCTGTGTCCCT  
GCTGCGGGAGTGTTGAAGTTGCGGCCCTCGGACCCACCGTGCCCTGATGGCCGCGAAGGTCTGCATCGGGTC  
CCTTCGCTGGCTAGAGGAAGCAGAGCACTTTGCCATGATGGTGATCAGCCTCGGAGAGGAAGCCGGGGAGTTCTCT  
CCCCAAGGGCTACCTGGCTCTGGGTCTCACCTATAGCCTGCAGGCCACCGACGCCACCTGAAGTCCAAGCAAGA  
TGAATTGCACCGGAAGGCACTGCAGACGCTGGAGAGGGCTCAGCAGCTGGCGCCCAAGTGACCCCAAGGTATCCT  
CTATGTCTCGCTGCAGCTGGCCCTCGTCCGACAGATCTCCAGTGCCATGGAGCAGCTGCAGGAGGCCCTGAAGGT  
ACGCAAGGATGATGCCACGCCCTCCACCTGCTGGCACTGCTCTTCTCTGCCCAGAAGCACCACCAGCATGCCCT  
GGATGTTGTCAACATGGCCATCACCGAGCACCTTGAGAACTTCAACCTGATGTTTACCAAGGTGAAGCTGGAGCA  
GGTGCTGAAAGGCCCAGAGGAAGCCCTCGTGACCTGCAGACAAGTGCTGAGGCTGTGGCAGACCCTGTACAGCTT  
CTCCCAGCTGGGAGGCCTAGAAAAGGATGGCAGCTTCGGTGAGGGCCTCACCATGAAGAAGCAGAGTGGCATGCA  
CCTGACTTTGCTGATGCCATGATGCAGACTCTGGCTCCCGCGGGCTTCGTCCATCGCCGCTCCCGGCTGGA  
GGAGGCCATGTGAGAGCTGACTATGCCCTCTTCGGTCTGAAGCAGGGCCCCATGCAGCTGTGGACCACGCTGGA  
ACAGATCTGGCTGCAGGCTGCTGAGCTGTTTATGGAGCAGCAGCACCTCAAGGAAGCAGGTTTCTGCATCCAGGA  
GGCGGGGGCCTCTTCCCCACTTCTCACTCAGTACTCTATATGCGGGGCGGCTGGCTGAGGTGAAGGGCAACCT  
GGAGGAGGCCAAGCAGCTGTACAAGGAGGCGCTCACGGTGAACCCAGATGGCGTGCGCATCATGCATAGCCTGGG  
TCTGATGCTGAGTCGGCTGGGCCACAAGAGCTTGGCCAGAAGGTGCTTCGTGATGCCGTGGAGAGGCAGAGTAC  
GTGCCACGAGGCGTGGCAGGGCCTGGGCGAGGTGCTGCAGGCCAGGGCCAGAACGAGGCTGCCGTTGACTGCTT  
CCTCACCGCCCTTGAGCTGGAGGCCAGCAGCCCTGTACTGCCCTTCTCCATCATCCCCAGAGAGCTCTGACGACG  
CTGCAGCCGCAGGGAGGGAGGGGCTGGCCAGAGGGAGAGGCAGCAGGGAACGTGGGTGAGGTGGGGCAACAGTG  
GCATCAGGTGCGGGCCTCAGGGAAATACATCTTTAGTGAACGCCTCTGCAGCTGCAGCCCTCGTTCTCTTGGCT  
GGGCCAAGAGGGCCTTCTGGATTTCTTTGTTGGTGCCTTGGGAAACAGTCTGACTTGAACCTAAGTGCCTTTG  
GAGAGTTTTGTGGTGACCAGACTTGCTCCCCAAGAGCTGGGCAGCGGGGAGCCTCACAGCTGTCTTACCCTCA  
CCCATGCCTCTGGCTTGGAGTCTGGGTGGGGGTTCTCACTCCCCACTCTCAGCACAGTACAGACTTCTGGAICT  
CTCTCAGGTCTTGGCCAGGGCGGTCACAATGTGAAGAACTGCGGGCAAGTGGGAAGACTATGAGATTTCTGGGT  
TCCCTTCTCAGACTTGGAGTTAGTAGATGATTCCTGCATTGCCCTGCTTGGCCTCTGAGACCAGCTGGGCCCA  
CCTTGCTCTTTCCCCCTGCTACCAAGTGCTTTGGGGTCTGACCAGGGGTACTGAGCACCGGCCCTAACACTTCC  
ATCTCCACCCACCCCATCTCCCTGGCGATGTGCTCCAGCCCAAGCAGCCTCCGTAGGCTTTAGATCCTGTGGTTG  
CTAGATCCAGTCCTTTCTAATACCCTGAGTCAACACATTACTCCTGCAGGTCTTAGGCTACAATGCAGGTCCCTT  
GAGGGCCACCAACATGGAGGTAGGCAGTTTCTAGGACTGTCCCGAGTACATCTCACCACCCACAGCCCTTTTTTT  
GCCTTGATTGAGCCTCACCTGGCCTTTTGGCTTCCCTGCCTGAGAGAGACCTGAGGAGGGGACAGAGCCAG  
CCCCTCTCCTGTGGCTGAGCAGGCCTCTGTGTCCATGACACCTGTCTTCCGGGCTGGGGGCTGTGGGTGTATGT  
CCTCCCTACTGGCTTCCCCGGCCCTGCTGCATGATGCTCTTGGAACTCTTCTCCAAGGAGTCAGTCCCCCAGGC  
CTATCAGGGGATCCTTTTGTATCTGCACCTTTGGGTTTTAGTTTTCAAAGCTCCATCAGGTACAGCTTGCAATTCAG  
GATGTGTGGAAAGCTCGGGTGAGGGCTGCCCTGGTTCATCATAGCTCCACCTTCTCGGAAGGAGTGGGCTGTTG

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**FIGURE 738B**

GAGACCCCCCATCCATGGCACACTAGCTCAGCACTGCATTTCCCGAGATGATTCCCAAGACAGCTGGTGCCTCCT  
GGCTTTCCTGTGCCAGGCCAAGGGGCACCACAGAGGACCCTGGATCCTTTGCCTCTTCTTGTTGAAGGATCTCT  
ATGTATGTGTATATAAATATAGTTTTTATCTATATATATAAAATAGAGATCTATTTTTTTCTGGAATTCTG  
TTAGAAAAGTAAAGAAAAAGCAAATGCTGTTGGTTTATCTCAGGGTGCCCAAAGTGGTTATAGTCAATTTTTGGT  
ACTAGGAAAGGCACCCAATGCATTTCTGACTTTTAAGCATTTCTTGTTGGAAGCAGCAGAGGGCCAGGCCAAG  
TTGCTGACAGTGACTTTGCAGGTTGAATAAAGAAACCCTTGGAGGGGAAGCAGGCTTGCTGAAGCAGCATGTAT  
ATTCACTGGGCATGTAGCTCCACACCAGCCTTGAGCCAGGCCCTGGACAGGAGGGGCTGTTGCAGGATGAGGGA  
GGCCAGAGAAGGCATCGAAGCCAAGACCTGGGCCCACCTGGGGAGGGATGTGGGAAAGGAAGGATGGGAGGGAGG  
ACCCTCTGGGAAAATGTGGATTTGAGCTGGTGAGAGTGTTGCTAAGGCTGGGCTAAAGCCTGGAGAGGGTAGGAG  
GAGGCAAGAGGGGTCCAGGCAGGGCTGATCCTGGCCTCTGACCTGTCCAGGGCGACCCCTGAAGCCCCTGCTGCC  
TCTGGGCATTGCTGGGAGAGGCCAAGGCAGGACTCACGTCTGAACAGAGATCCCCTCGGGCATTGCTGATGGGCC  
ACCTTCAGCTGCAGGGAAGAAGCCTAGGAGAGGAGGCATGGGAGGGACCTGGGCCTTGTTTCAGATTGGCCACCTC  
TGCTGAGAAGTCCATACCAGTACACCCCTAATAAGTTATGCCACATACCAACGTACTGTGGATATTATAACCTGC  
ATTAAACAACCTCTAAAGAACGCTGCTCATT

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**FIGURE 739**

MAAKGAHGSYLKVESELERCRAEGHWDRMPQLVRQLQTLSPGGGGNRRGSPSAAFTFPDITDDFGKLLLAALLE  
QCLKENHAKIKDSMPLEKNEPKMSEAKNYLSSILNHGRLSPQYMCEAMLILGKLHYVEGSYRDAISMYARAGID  
DMSMENKPLYQMRLLSAFAVIKGLSLERLPNSIASRFLTEREEVITCFERASWIAQVFLQELEKTTNNSTSRH  
LKGCHPLDYELTYFLEAALQSAYVKNLKKGNIVKGMRELREVLRTVETKATQNFKVMAAKHLAGVLLHSLSEECY  
WSPLSHPLPEFMGKEESSFATQALRKPHLYEGDNLYCPKDNIEEALLLLISESMATRDVVLSRVPEQEEDRTVS  
LQNAAAIYDLLSITLGRRGQYVMLSECLERAMKFAFGEFHLWYQVALSMVACGKSAYAVSLLRECVKLRPSDPTV  
PLMAAKVCIGSLRWLEEAHFAMMVISLGEEAGEFLPKGYLALGLTYSLQATDATLKSQDELHRKALQTLERAQ  
QLAPSDPQVILYVSLQALVRQISSAMEQLQEALKVRKDDAHALHLLALLFSAQKHHQHALDVVNMAITEHPENF  
NLMFTKVKLEQVLKGPEEALVTCRQVLRRLWQTLYSFSQLGGLEKDGSFGEGLTMKKQSGMHLTLPDAHDADSGSR  
RASSIAASRLLEEAMSELTMPSSVLKQGPMQLWTTLQIWLQAAELFMEQQHLKEAGFCIQEAAGLFPTSHSVLYM  
RGRLAEVKGNLEEAKQLYKEALTVNPDGVRIMHSLGLMLSLRLGHKSLAQKVLRLDAVERQSTCHEAWQGLGEVLQA  
QGQNEAAVDCFLTALALEASSPVLPSIIPREL



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**FIGURE 740**

AGTCCGAGTGGAGAGAGCGAGCTGAGTGGTTGTGTGGTTCGCGTCTCGGAAACCGGTAGCGCTTGCAGCATGGCTG  
ACCAACTGACTGAAGAGCAGATTGCAGAATTCAAAGAAGCTTTTTTCACTATTTGACAAAGATGGTGATGGAACTA  
TAACAACAAAAGGAATTGGGAACTGTAATGAGATCTCTTGGGCAGAATCCCACAGAAGCAGAGTTACAGGACATGA  
TTAATGAAGTAGATGCTGATGGTAATGGCACAATTGACTTCCCTGAATTTCTGACAATGATGGCAAGAAAAATGA  
AAGACACAGACAGTGAAGAAGAAATTAGAGAAGCATTCCGTGTGTTTGATAAGGATGGCAATGGCTATATTAGTG  
CTGCAGAACTTCGCCATGTGATGACAAACCTTGGAGAGAAGTTAACAGATGAAGAAGTTGATGAAATGATCAGGG  
AAGCAGATATTGATGGTGATGGTCAAGTAACTATGAAGAGTTTGTACAAATGATGACAGCAAAGTGAAGACCTT  
GTACAGAATGTGTTAAATTTCTTGTACAAAATTGTTTATTTGCCCTTTCTTTGTTTGTAACCTTATCTGTAAAAGG  
TTTCTCCCTACTGTCAAAAAAATATGCATGTATAGTAATTAGGACTTCATTCCCTCCATGTTTTCTTCCCTTATCT  
TACTGTCATTGTCCTAAAACCTTATTTTAGAAAATTGATCAAGTAACATGTTGCATGTGGCTTACTCTGGATATA  
TCTAAGCCCTTCTGCACATCTAAACTTAGATGGAGTTGGTCAAATGAGGGAACATCTGGGTTATGCCTTTTTTAA  
AGTAGTTTTCTTTAGGAACTGTCAGCATGTTGTTGTTGAAGTGTGGAGTTGTAACCTCTGCGTGGACTATGGACAG  
TCAACAATATGTACTTAAAAGTTGCACTATTGCAAAACGGGTGTATTATCCAGGTACTCGTACACTATTTTTTTG  
TACTGCTGGTCCCTGTACCAGAAACATTTTCTTTTATTGTTACTTGCTTTTTTAACTTTGTTTAGCCACTTAAAAAT  
CTGCTTATGGCACAATTTGCCTCAAATCCATTCCAAGTTGTATATTTGTTTTCCAATAAAAAAATTACAATTT

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**FIGURE 741**

GGCGGGAAACAGCTTAGTGGGTGTGGGGTCGCGCATTTTCTTCAACCAGGAGGTGAGGAGGTTTCGACATGGCGG  
TGCAGCCGAAGGAGACGCTGCAGTTGGAGAGCGCGGCCGAGGTCGGCTTCGTGCGCTTCTTTCAGGGCATGCCGG  
AGAAGCCGACCACCACAGTGCGCCTTTTCGACCGGGGCGACTTCTATACGGCGCACGGCGAGGACGCGCTGCTGG  
CCGCCCCGGGAGGTGTTCAAGACCCAGGGGTGATCAAGTACATGGGGCCGGCAGGAGCAAAGAATCTGCAGAGTG  
TTGTGCTTAGTAAAATGAATTTTGAATCTTTGTAAAAGATCTTCTTCTGGTTCGTGAGTATAGAGTTGAAGTTT  
ATAAGAATAGAGCTGGAATAAGGCATCCAAGGAGAATGATTGGTATTTGGCATATAAGGCTTCTCCTGGCAATC  
TCTCTCAGTTTGAAGACATTCTCTTTGGTAACAATGATATGTCAGCTTCCATTGGTGTGTGGGTGTTAAAATGT  
CCGCAGTTGATGGCCAGAGACAGGTTGGAGTTGGGTATGTGGATTCCATACAGAGGAAACTAGGACTGTGTGAAT  
TCCCTGATAATGATCAGTTCTCCAATCTTGAGGCTCTCCTCATCCAGATTGGACCAAAGGAATGTGTTTTACCCG  
GAGGAGAGACTGCTGGAGACATGGGGAACTGAGACAGATAATTCAAAGAGGAGGAATTCTGATCACAGAAAGAA  
AAAAAGCTGACTTTTCCACAAAAGACATTTATCAGGACCTCAACCGGTTGTTGAAAGGCCAAAAGGGAGAGCAGA  
TGAATAGTGCTGTATTGCCAGAAATGGAGAATCAGGTTGCAGTTTCATCACTGTCTGCGGTAATCAAGTTTTTAG  
AACTCTTATCAGATGATTCCAATTTGGACAGTTTGAAGTACTACTTTTGAAGTTCAGCCAGTATATGAAATTGG  
ATATTGCAGCAGTCAGAGCCCTTAACCTTTTTTCAGGGTCTGTTGAAGATAACCACTGGCTCTCAGTCTCTGGCTG  
CCTTGCTGAATAAGTGTAACCCCTCAAGGACAAAGACTTGTTAACCAGTGGATTAAAGCAGCCTCTCATGGATA  
AGAACAGAATAGAGGAGAGATTGAATTTAGTGGAAGCTTTTGTAGAAGATGCAGAATTGAGGCAGACTTTACAAG  
AAGATTTACTTTCGTGATTCCCAGATCTTAACCGACTTGCCAAGAAGTTTCAAAGACAAGCAGCAAACCTTACAAG  
ATTGTTACCGACTCTATCAGGGTATAAATCAACTACCTAATGTTATACAGGCTCTGGAAAAACATGAAGGAAAAC  
ACCAGAAATTATTGTTGGCAGTTTTTGTGACTCCTCTTACTGATCTTCGTTCTGACTTCTCCAAGTTTCAGGAAA  
TGATAGAAACAACCTTTAGATATGGATCAGGTGGAAGAACCATGAATTCCTTGTAACCTTCATTTGATCCTAATC  
TCAGTGAATTAAGAGAAATAATGAATGACTTGGAAGAAAGATGCAGTCAACATTAATAAGTGCAGCCAGAGATC  
TTGGCTTGACCCCTGGCAAACAGATTAACTGGATTCCAGTGCACAGTTTGATATTACTTTCGTGTAACCTGTA  
AGGAAGAAAAAGTCCTTCGTAACAATAAAAACCTTTAGTACTGTAGATATCCAGAAGAAATGGTGTAAATTTACCA  
ACAGCAAATTGACTTCTTTAAATGAAGAGTATACCAAAAATAAAACAGAATATGAAGAAGCCCAGGATGCCATTG  
TTAAAGAAATTGTCAATATTTCTTCAGGCTATGTAGAACCAATGCAGACACTCAATGATGTGTAGCTCAGCTAG  
ATGCTGTTGTGACGTTTGTCTACGTGTCAAATGGAGCACCTGTTCCATATGTACGACCAGCCATTTTGGAGAAAG  
GACAAGGAAGAATTATATTAAGCATCCAGGCATGCTTGTGTTGAAGTTCAAGATGAAATTGCATTTATTCCTA  
ATGACGTATACTTTGAAAAAGATAAACAGATGTTCCACATCATTACTGGCCCCAATATGGGAGGTAAATCAACAT  
ATATTGCACAACTGGGGTGATAGTACTCATGGCCCAATTTGGGTGTTTTGTGCCATGTGAGTCAGCAGAAGTGT  
CCATTGTGACTGCATCTTAGCCCGAGTAGGGGCTGGTGACAGTCAATTGAAAGGAGTCTCCACGTTTATGGCTG  
AAATGTTGGAACTGCTTCTATCCTCAGGTCTGCAACCAAAGATTCAATTAATAATCATAGATGAATTGGGAAGAG  
GAAGTTCTACCTACGATGGATTGGGGTTAGCATGGGCTATATCAGAATACATTGCAACAAAGATTGGTGCTTTTT  
GCATGTTTGCAACCCATTTTCATGAACTTACTGCCTTGCCCAATCAGATACCAACTGTTAATAATCTACATGTCA  
CAGCACTCACCCTGAAGAGACCTTAAGTATGCTTTATCAGGTGAAGAAAGGTGTCTGTGATCAAAGTTTTGGGA  
TTCATGTTGCAGAGCTTGCTAATTTCCCTAAGCATGTAATAGAGTGTGCTAAACAGAAAGCCCTGGAAGTTGAGG  
AGTTTCAGTATATTGGAGAAATCGCAAGGATATGATATCATGGAACCAGCAGCAAAGAAGTGCTATCTGGAAAGAG  
AGCAAGGTGAAAAAATTATTCAGGAGTTTCTGTCCAAGGTGAAACAAATGCCCTTTACTGAAATGTCAGAAGAAA  
ACATCACAATAAAGTTAAAAACAGCTAAAAGCTGAAGTAATAGCAAAGAATAATAGCTTTGTAAATGAAATCATT  
CACGAATAAAGTTACTACGTGAAAAATCCCAGTAATGGAATGAAGGTAAATATGATAAGCTATTGTCTGTAATA  
GTTTTATATTGTTTTATATTAAACCTTTTTCCATAGTGTTAACTGTCAGTGCCCATGGGCTATCAACTTAATAAG  
ATATTTAGTAATATTTTACTTTGAGGACATTTTCAAAGATTTTTATTTTGAAAAATGAGAGCTGTAAGTGGAGC  
TGTTTGCAATTGACATAGGCAATAATAAGTGATGTGCTGAATTTTATAAATAAAATCATGTAGTTTGTGG

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**FIGURE 742**

MAVQPKETLQLESAAEVGFVRFFQGMPEKPTTTVRLFDGRDFYTAHGEDALLAAREVFKTQGVIKYMGPAGAKNL  
QSVVLSKMNFESEFVKDLLLVQRVEVYKNRAGNKASKENDWYLAYKASPGNLSQFEDILFGNNDMSASIGVVGV  
KMSAVDGGQRQVGVGYSIQRKLGLCEFPDNDQFSNLEALLIQIGPKECVLPGETAGDMGKLRQIIQRGGIIT  
ERKKADFSTKDIYQDLNRLKGGKGEQMNSAVLPEMENQVAVSSLSAVIKFLELLSDDSNFGQFELTTDFDSQYM  
KLDIAAVRALNLFQGSVEDTTGSQSLAALLNKCKTPQGQRLVNQWIKQPLMDKNRIEERLNLVEAFVEDAELRQT  
LQEDLLRRFPDLNRLAKKFQRQAANLQDCYRLYQGINQLPNVIALEKHEGKHQKLLAVFVTPPLTDLRSDFSKE  
QEMIETTLDMQVENHEFLVKPSFDPNLSELREIMNDLEKKMQSTLISAARDLGLDPGKQIKLDSSAQFGYYFRV  
TCKEEKVLRNNKNFSTVDIQKNGVKFTNSKLTSLNEEYTKNKTEYEEAQDAIVKEIVNISSGYVEPMQTLNDVLA  
QLDAVVSFAHVSNGAPVPYVRPAILEKGQGRILKASRHACVEVQDEIAFIPNDVYFEKDKQMFHIITGPNMGGK  
STYIRQTGVIVLMAQIGCFVPCESAEVSIVDCILARVGAGDSQLKGVSTFMAEMLETASILRSATKDSLIIIDEL  
GRGTSTYDGFGLAWAISEYIATKIGAFCMFATHFHELTALANQIPTVNNLHVTALTTEETLTMLYQVKKGVCDQS  
FGIHVAELANFPKHVIECAKQKALELEEFQYIGESQGYDIMEPAKKCYLEREQGEKIIQEFLSKVKQMPFTEMS  
EENITIKLKQLKAEVIAKNNSFVNEIISRIKVT

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**FIGURE 743**

CTTTTGCGGGTGGCGGCGAACGCGGAGAGCACGCCATGAAGGCCTCGGGCACACTACGAGAGTACAAAGTAGTGG  
GTCGCTGCCTGCCCACCCCCAAATGCCACACACCACCCCTCTACCGCATGCGAATCTTTGCGCCTAATCATGTGCG  
TCGCCAAGTCCCGCTTCTGGTACTTCGTATCTCAGTTAAAGAAGATGAAGAAGTCTTCAGGGGAGATTGTCTACT  
GTGGGCAGGTGTTTGAGAAGTTCCCCCTTGCGGGTGAAGAACTTCGGGATCTGGCTGCGCTATGACTCCCGGAGCG  
GCACCCACAACATGTACCGGGAATACCGGGACCTGACCACCGCAGGCGCTGTCACCCGGTGCTACCGAGACATGA  
GCGCCCGGCACGCGGCCGGGCCCACTCCATTGAGATCATGAAGGTGGAGGAGATCGCGGCCAGCAAGTGCCGCC  
GGCCGGCTGTCAAGCAGTTCCACGACTCCAAGATCAAGTTCCCGCTGCCCCACCGGGTCCTGCGCCGTCAGCACA  
AGCCACGCTTCACCACCAAGAGGCCCAACACCTTCTTCTAGGTGCAGGGCCCTCGCCCGGGTGTGCCCCAAATAA  
ACTCAGGAACGCCCC

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**FIGURE 744A**

ATTTCCTCCGCCAGCAGGAGCCGCGCGGTAGATGCGGTGCTTTTAGGAGCTCCGTCCGACAGAACGGTTGGGCCTTG  
CCGGCTGTTCGGTATGTCGCGACAGAGCACCTGTACAGCTTCTTCCCAAGTCTCCGGCGCTGAGTGATGCCAAC  
AAGGCCTCGGCCAGGGCTCACGCGAAGGCGGCCGTGCCGCCGTGCCCGCGGCGCTCTCCTTCCCCAGGCGGG  
GATGCGGCCTGGAGCGAGGCTGGGCCTGGGCCAGGCCCTTGGCGCGATCCGCGTCACCGCCCAAGGCGAAGAAC  
CTCAACGGAGGGCTGCGGAGATCGGTAGCGCCTGCTGCCCCACCAGTTGTGACTTCTCACCAGGAGATTGGTT  
TGGGCCAAGATGGAGGGTTACCCCTGGTGGCCTTGTCTGGTTTACAACCACCCCTTTGATGGAACATTCATCCGC  
GAGAAAGGGAAATCAGTCCGTGTTTCATGTACAGTTTTTTGATGACAGCCCAACAAGGGGCTGGGTAGCAAAAGG  
CTTTTAAAGCCATATACAGGTTCAAATCAAAGGAAGCCAGAAGGGAGGTCATTTTACAGTGCAAGCCTGAA  
ATACTGAGAGCAATGCAACGTGCAGATGAAGCCTTAAATAAAGACAAGATTAAGAGGCTTGAATTGGCAGTTTGT  
GATGAGCCCTCAGAGCCAGAAGAGGAAGAAGAGATGGAGGTAGGCACAACCTTACGTAACAGATAAGAGTGAAGAA  
GATAATGAAATTGAGAGTGAAGAGGAAGTACAGCCTAAGACACAAGGATCTAGGCGAAGTAGCCGCCAAATAAAA  
AAACGAAGGGTCATATCAGATTCTGAGAGTGACATTGGTGGCTCTGATGTGGAATTTAAGCCAGACACTAAGGAG  
GAAGGAAGCAGTGATGAAATAAGCAGTGGAGTGGGGGATAGTGAGAGTGAAGGCCTGAACAGCCCTGTCAAAGTT  
GCTCGAAAGCGGAAGAGAATGGTGACTGGAATGGCTCTCTTAAAAGGAAAAGCTCTAGGAAGGAAACGCCCTCA  
GCCACCAAAACAAGCAACTAGCATTTCATCAGAAACCAAGAATACTTTGAGAGCTTCTCTGCCCCCTCAAATTTCT  
GAATCCCAAGCCACGTTAGTGGAGGTGGTGATGACAGTAGTGCCTTACTGTTTGGTATCATGAACTTTAGAA  
TGGCTTAAGGAGGAAAAGAGAAGAGATGAGCACAGGAGGAGGCCTGATCACCCGATTTTGTATGCATCTACACTC  
TATGTGCTGAGGATTTCTCTCAATTCTTGTACTCTGGGATGAGGAAGTGGTGGCAGATTAAGTCTCAGAATTT  
GATCTTGTCTATCTGTTACAAGGTGGGGAAATTTTATGAGCTGTACCACATGGATGCTCTTATTGGAGTCAGTGAA  
CTGGGGCTGGTATTTCATGAAAGGCAACTGGGCCATTCTGGCTTTCTGAAATTGCATTTGGCCGTTATTTCAGAT  
TCCCTGGTGCAGAAGGGCTATAAAGTAGCACGAGTGAACAGACTGAGACTCCAGAAATGATGGAGGCACGATGT  
AGAAAGATGGCACATATATCCAAGTATGATAGAGTGGTGAGGAGGGAGATCTGTAGGATCATTACCAAGGGTACA  
CAGACTTACAGTGTGCTGGAAGGTGATCCCTCTGAGAACTACAGTAAGTATCTTCTTAGCCTCAAAGAAAAAGAG  
GAAGATTCTTCTGGCCATACTCGTGCATATGGTGTGTGCTTTGTTGATACTTCACTGGGAAAGTTTTTTCATAGGT  
CAGTTTTTCAGATGATCGCCATTGTTTCGAGATTTAGGACTCTAGTGGCACACTATCCCCAGTACAAGTTTTATT  
GAAAAAGGAAATCTCTCAAAGGAACTAAAACAATTCTAAAGAGTTTCAATGTCTGTTCTCTTCAGGAAGGTCTG  
ATACCCGGCTCCAGTTTTTGGGATGCATCCAAACTTTGAGAACTCTCCTTGAGGAAGAATATTTTAGGGAAAAG  
CTAAGTGATGGCATTGGGGTGATGTTACCCAGGTGCTTAAAGGTATGACTTCAGAGTCTGATTCCATTGGGTTG  
ACACCAGGAGAGAAAAGTGAATTGGCCCTCTCTGCTCTAGGTGGTTGTGTCTTCTACCTCAAAAAATGCCTTATT  
GATCAGGAGCTTTTATCAATGGCTAATTTTGAAGAATATATTCCTTGGATTCTGACACAGTCAGCACTACAAGA  
TCTGGTGCTATCTTACCAGCCTATCAACGAATGGTGCTAGATGCAGTGACATTAACAACCTTGGAGATTTTT  
CTGAATGGAACAAATGGTTCTACTGAAGGAACCCTACTAGAGAGGGTTGATACTTGCCATACTCCTTTTGGTAAG  
CGGCTCCTAAAGCAATGGCTTTGTGCCCACTCTGTAAACCATTATGCTATTAATGATCGTCTAGATGCCATAGAA  
GACCTCATGGTTGTGCCTGACAAAATCTCCGAAGTTGTAGAGCTTCTAAAGAAGCTTCCAGATCTTGAGAGGCTA  
CTCAGTAAATTCATAATGTTGGGTCTCCCTGAAGAGTCAGAACCACCCAGACAGCAGGGCTATAATGTATGAA  
GAAACTACATACAGCAAGAAGAAGATTATTGATTTTCTTTCTGCTCTGGAAGGATTCAAAGTAATGTGTAAAATT  
ATAGGGATCATGGAAGAAGTTGCTGATGGTTTTAAGTCTAAATCCTTAAGCAGGTCATCTCTGTCAGACAAAA  
AATCCTGAAGGTCGTTTTCTGATTTGACTGTAGAATTGAACCGATGGGATACAGCCTTTGACCATGAAAAGGCT  
CGAAAGACTGGACTTATTACTCCCAAGCAGGCTTTGACTCTGATTATGACCAAGCTCTTGCTGACATAAGAGAA  
AATGAACAGAGCCTCCTGGAATACCTAGAGAAACAGCGCAACAGAATTGGCTGTAGGACCATAGTCTATTGGGGG  
ATTGGTAGGAACCGTTACCAGCTGGAATTCCTGAGAATTCACCACTCGCAATTTGCCAGAAGAATACGAGTTG  
AAATCTACCAAGAAGGGCTGTAAACGATACTGGACCAAACTATTGAAAAGAAGTTGGCTAATCTCATAAATGCT  
GAAGAACGGAGGGATGTATCATTGAAGGACTGCATGCGGCGACTGTTCTATACTTTGATAAAAATTACAAGGAC  
TGGCAGTCTGCTGTAGAGTGTATCGCAGTGTGGATGTTTTACTGTGCCTGGCTAACTATAGTCGAGGGGGTGAT  
GGTCTATGTGTGCCCCAGTAATTCTGTTGCCGAAGATACCCCCCTTCTTAGAGCTTAAAGGATCACGCCAT  
CCTTGCAATTACGAAGACTTTTTTTGGAGATGATTTTATTCCTAATGACATTCTAATAGGCTGTGAGGAAGAGGAG  
CAGGAAAATGGCAAAGCCTATTGTGTGCTTGTACTGGACCAAAATATGGGGGGCAAGTCTACGCTTATGAGACAG  
GCTGGCTTATTAGCTGTAATGGCCCAGATGGGTTGTTACGTCCCTGCTGAAGTGTGCAGGCTCACACCAATTGAT

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**FIGURE 744B**

AGAGTGTTTACTAGACTTGGTGCCTCAGACAGAATAATGTCAGGTGAAAGTACATTTTTTGTGAATTAAGTGAA  
ACTGCCAGCATACTCATGCATGCAACAGCACATTCTCTGGTGCTTGTGGATGAATTAGGAAGAGGTACTGCAACA  
TTTGATGGGACGGCAATAGCAAATGCAGTTGTTAAAGAACTTGCTGAGACTATAAAATGTCGTACATTATTTTCA  
ACTCACTACCATTTCATTAGTAGAAGATTATTCTCAAATGTTGCTGTGCGCCTAGGACATATGGCATGCATGGTA  
GAAAATGAATGTGAAGACCCCAGCCAGGAGACTATTACGTTCTCTATAAAATTCATTAAGGGAGCTTGTCTCTAAA  
AGCTATGGCTTTAATGCAGCAAGGCTTGCTAATCTCCAGAGGAAGTTATTCAAAGGGACATAGAAAAGCAAGA  
GAATTTGAGAAGATGAATCAGTCACTACGATTATTTTCGGGAAGTTTGCCTGGCTAGTGAAAGGTCAACTGTAGAT  
GCTGAAGCTGTCCATAAAATTGCTGACTTTGATTAAAGGAATTATAGACTGACTACATTGGAAGCTTTGAGTTGACT  
TCTGACCAAAGGTGGTAAATTCAGACAACATTATGATCTAATAAACTTTATTTTTTAAAATGA

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**FIGURE 745**

MSRQSTLYSFFPKSPALSDANKASARASREGGRAAAPGASPSPGGDAWSEAGPGRPLARSASPPKAKNLNGG  
LRRSVAPAAPTSCDFS PGDLVWAKMEGYPWWPCLVYNHPFDGTFIREKGKSVRVHVQFFDDSPTRGWVSKRLLKP  
YTGSKSKEAQKGGHFYSAPKEILRAMQRADEALNKDKIKRLELAVCDEPSEPEEEEEEMEVTYVTDKSEEDNEI  
ESEEVQPKTQGSRRSSRQIKRRVISDSSEDIGGSDVEFKPDTKEEGSSDEISSGVGDSESEGLNSPVKVARKR  
KRMVTGNGSLKRKSSRKETPSATKQATSISSETKNTLRAFSAPQNSSEQAHVSGGGDDSSRPTVWYHETLEWLKE  
EKRRDEHRRRPDHPDFDASTLYVPEDFLNSCTPGMRKWWQIKSQNFDLVICYKVGKIFYELYHMDALIGVSELGLV  
FMKGNWAHSGFPEIAFGRYSDSLVQKGYKVARVEQTETPEMMEARCRKMAHISKYDRVVRREICRIITKGTQYYS  
VLEGDPSENYSKYLLSLKEKEEDSSGHTRAYGVCFVDTSLGKFFIGQFSDDRHC SRFRTLVAHYPPVQVLFKGN  
LSKETKTILKSSLSCSLQEG LIPGSQFWDASKTLRTLLEEEYFREKLSDGIGVMLPQVLKGMTSESDSIGLTPGE  
KSELALSALGGCVFYLLKKCLIDQELLSMANFEEYIPLDSDTVSTTRSGAIFTKAYQRMVLD AVTLNNLEIFLNGT  
NGSTEGTLLERVD TCHTFPGKRLLKQWLCAPLCNHYAINDRLDAIEDLMVVPDKISEVVELLKKLPDLERLLSKI  
HNVSPLKSNHPDSRAIMYEETYSKKKIIDFLSALEGFKVMCKIIGIMEEVADGFKSKILKQVISLQTKNPEG  
RFPDLTVELNRWD TAFDHEKARKTGLITPKAGFDSYDQALADIRENEQSLLEYLEKQRNRIGCRTIVYWGIGRN  
RYQLEIPENFTTRNLPEEYELKSTKKGCKRYWTKTIEKKLANLINAEERRDVSLKDCMRRLFYNFDKNYKDWQSA  
VECIAVLVDVLLCLANYSRGGDGPMCRPVILLPEDTPPFLELKGSRHPCITKTFFGDDFIPNDILIGCEEEQENG  
KAYCVLVTGPNMGGKSTLMRQAGLLAVMAQMGCYVPAEVCRLTPIDRVFTRLGASDRIMSGESTFFVELSETASI  
LMHATAHSLVLVDELGRGTATFDGTAIANAVVKELAETIKRRTLFSTHYHSLVEDYSQNVAVRLGHMACMVENEC  
EDPSQETITFLYKFIKGACPKSYGFNAARLANLP EEVIQKGRKAREFEKMNQSLRLFREVC LASERSTVDAEAV  
HKLLTLIKEL

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**FIGURE 746A**

GTGAGCTGAAGCAGGGCAGGGCATCAACTCACCCAGGAAGTGCAAGGGGTTTGGGGATTTTCCTTTCTTAGCCAA  
GGGAAGGCATGACAGACTGTACCTGGAAAAACAGGACACTCTTGCCCAAATACTGCACTTTTTGCACAGTCTTAG  
CAACTGGCAGACCAGGAGATTCTCTCTGTGCTGATTCAATTGGGTCCCACACCCATAGGGCCTTGCTTACTGCC  
AGTGCAGCAGTCTGAGATTAAACACCCCATCCCCGGGAGAACTCTAAGAAGGAGCTGATGTGGAGGAGCAGCTGAG  
ACAGTTCAAGATGACGACCACAGTAGCCACAGACTATGACAACATTGAGATCCAGCAGCAGTACAGTGATGTCAA  
CAACCGCTGGGATGTGACGACTGGGACAATGAGAACAGCTCTGCGCGGCTTTTTGAGCGGTCCCGCATCAAGGC  
TCTGGCAGATGAGCGTGAAGCCGTGCAGAAGAAGACCTTCACCAAGTGGGTCAATTCACACCTTGCCCGTGTGTC  
CTGCCGGATCACAGACCTGTACACTGACCTTCGAGATGGACGGATGCTCATCAAGCTGCTGGAGGTCTCTCTGG  
AGAGAGGCTGCCTAAACCCACCAAGGGACGAATGCGCATCCACTGCTTAGAGAATGTGGACAAGGCCCTTCAGTT  
CCTGAAGGAGCAGAGAGTCCATCTTGAGAACATGGGGTCCCATGACATCGTGGATGGAAACCACCGGTGACCTT  
TGGCCTCATCTGGACCATCATCTGCGCTTCAGATCCAGGATATCAGTGTGGAACTGAAGACAACAAAGAGAA  
GAAATCTGCCAAGGATGCATTGCTGTTGTGGTGCCAGATGAAGACAGCTGGGTACCCCAATGTCAACATTACAA  
TTTACCAGTAGCTGGAGGGACGGCATGGCCTTCAATGCACTGATACACAAACACCGGCCTGACCTGATAGATTT  
TGACAAACTAAAGAAATCTAACGCACACTACAACCTGCAGAATGCATTTAATCTGGCAGAACAGCACCTCGGCCCT  
CACTAAACTGTTGGACCCCCGAAGACATCAGCGTGGACCATCCTGATGAGAAGTCCATAATCACTTATGTGGTGAC  
TTATTACCACTACTTCTCTAAGATGAAGGCCTTAGCTGTTGAAGGAAAACGAATTGGAAAGGTGCTTGACAATGC  
TATTGAAACAGAAAAATGATTGAAAAGTATGAATCACTTGCTCTGACCTTCTGGAATGGATTGAACAAACCAT  
CATCATTCTGAACAATCGCAAATTTGCCAATTCAGTGGTGGGGTTCAACAGCAGCTTCAGGCATTCAACACTTA  
CCGCACTGTGGAGAAACCACCCAAATTTACTGAGAAGGGGAAGTGGAAAGTGTCTCTTACCATTACAGAGCAA  
GATGAGGGCCAACAACCAGAAGGTCTACATGCCCCGGGAGGGGAAGCTCATCTCTGACATCAACAAGGCCTGGGA  
AAGACTGGAAAAAGCGGAACACGAAAGAGAAGTGGCTTTGCGGAATGAGCTCATAAGACAGGAGAACTGGAACA  
GCTCGCCCGCAGATTTGATCGCAAGGCAGCTATGAGGGAGACTTGGCTGAGCGAAAACCAGCGTCTGGTGTCTCA  
GGACAACCTTTGGGTTTGACCTTCTGCAAGTTGAGGCCGCCACAAAAAGCACGAGGCCATTGAGACAGACATTGC  
CGCATACGAGGAGCGTGTGAGGCTGTGGTAGCCGTGGCCAGGGAGCTCGAGGCCGAGAATTACCACGACATCAA  
GCGCATCACAGCGAGGAAGGACAATGTCATCCGGCTCTGGGAATACCTACTGGAAGTCTCAGGGCCCCGGAGACA  
GCGGCTCGAGATGAACCTGGGGCTGCAGAAGATATTCCAGGAAATGCTCTACATTATGGACTGGATGGATGAAAT  
GAAGGTGCTAGTATTGTCTCAAGACTATGGCAAACACTTACTTGGTGTGGAAGACCTGTTACAGAAGCACACCCCT  
GGTTGAAGCAGACATTGGCATCCAGGCAGAGCGGGTGAGAGGTGTCAATGCCTCCGCCCAGAAGTTCCGAACAGA  
CGGGGAAGGTTACAAGCCCTGTGACCCCCAGGTGATCCGAGACCGCGTGGCCACATGGAGTTCTGTTATCAAGA  
GCTTTGCCAGCTGGCGGCTGAGCGCAGGGCCCGTCTGGAAGAGTCCCGCCGCTCTGGAAGTTCTTCTGGGAGAT  
GGCAGAAGAGGAAGGCTGGATACGGGAGAAGGAGAAGATCCTGTCTCGGACGATTACGGGAAAGACCTGACCAG  
CGTCATGCGCTGCTCAGCAAGCACCGGGCGTTTCGAGGACGAGATGAGCGGCCGAGTGGCCACTTTGAGCAGGC  
CATCAAGGAAGGCGAAGACATGATCGCGGAGGAGCACTTCGGGTGCGAGAAGATCCGTGAGAGGATCATTACAT  
CCGGGAGCAGTGGGCCAACCTAGAGCAGCTCTCGGCCATTTCGGAAGAAGCGCCTGGAGGAGGCCCTCCCTGCTGCA  
CCAGTTCCAGGCAGATGCTGATGACATTGATGCCTGGATGTGGACATCCTCAAGATTGTCTCCAGCAGCGACGT  
GGGCCACGATGAGTATTCCACACAGTCTCTGGTCAAGAAACACAAGGACGTGGCGGAAGAGATCGCCAATTACAG  
GCCCCCCTTGACACGCTGCACGAACAAGCCAGCGCCCTCCCCAGGAGCATGCCGAGTCTCCAGACGTGAGGGG  
CAGGCTGTGCGGCATCGAGGAGCGGTATAAGGAGGTGGCAGAGCTGACGCGGTGCGGAAGCAGGCACTCCAGGA  
CACTCTGGCCCTGTACAAGATGTTTACGCGAGGCTGATGCCTGTGAGCTCTGGATCGACGAGAAGGAGCAGTGGCT  
CAACAACATGCAGATCCCAGAGAAGCTGGAGGATCTGGAGGTCATCCAGCACAGATTGAGAGCCTAGAACCAGA  
AATGAACAACCAGGCTTCCCGGTTGCAAGTGGTGAACCAGATTGCACGCCAGCTGATGCACAGCGGCCACCCAAG  
TGAGAAGGAAATCAAAGCCCAGCAGGACAACTCAACACAAGGTGGAGCCAGTTCAGAGAAGTGGTTGACAGGAA  
GAAGGATGCCCTCCTGTCTGCCCTGAGCATCCAGAACTACCACCTCGAGTGCAATGAAACCAAATCCTGGATTCCG  
GGAAAAGACCAAGTTCATCGAGTCCACCCAGGACCTGGGCAATGACCTGGCTGGCGTCATGGCCCTGCAGCGCAA  
GCTGACCGGCATGGAGCGGGACTTGGTGGCCATTGAGGCAAAGCTGAGTGACCTGCAGAAGGAGGCGGAGAGCT  
GGAGTCCGAGCACCCCGACCGAGGCCAGGCCATCCTGTCTCGGCTGGCCGAGATCAGCGACGTGTGGGAGGAGAT  
GAAGACCACCTTGAAAACCGAGAGGCCTCCCTGGGAGAGGCCAGCAAGCTGCAGCAGTTCTACGGGACTTGGA  
CGACTTCCAGTCTGGCTCTCTAGGACCCAGACAGCGATCGCCTCGGAGGACATGCCAAACACCCCTGACCGAGGC



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**FIGURE 746B**

TGAGAAGCTGCTCACGCAGCACGAGAACATCAAGAATGAGATCGACAACCTACGAGGAGGACTACCAGAAGATGAG  
GGACATGGGCGAGATGGTCACCCAGGGGCGAGCCGATGCCCAGTACATGTTTCTGCGGCAGCGGCTGCAGGCCCT  
GGACACTGGATGGAACGAGCTCCACAAGATGTGGGAGAACAGACAAAATCTCCTATCCCAGTCACATGCCTACCA  
GCAGTTCTCAGAGACACGAAGCAAGCCGAAGCCTTTCTTAACAACCAGGAGTATGTTCTGGCTCACACTGAAAT  
GCCTACCACCTTGGAAGGAGCTGAAGCAGCAATTAAGCAAGAGGACTTCATGACCACCATGGACGCCAATGA  
GGAGAAGATCAATGCTGTGGTGGAGACTGGCCGGAGGCTGGTGAGCGATGGGAACATCAACTCAGATCGCATCCA  
GGAGAAGGTGGACTCTATTGATGACAGACATAGGAAGAATCGTGAGACAGCCAGTGAACTTTTGATGAGGTTGAA  
GGACAACAGGGATCTACAGAAATTCCTGCAAGATTGTCAAGAGCTGTCTCTCTGGATCAATGAGAAGATGCTCAC  
AGCCCAGGACATGTCTTACGATGAAGCCAGAAATCTGCACAGTAAATGGTTGAAGCATCAAGCATTATGGCAGA  
ACTTGTCATCCAACAAAGAATGGCTTGACAAAATCGAGAAGGAAGGAATGCAGCTCATTTAGAAAAGCCTGAGAC  
GGAAGCTGTGGTGAAGGAGAACTCACTGGTTTTACATAAAATGTGGGAAGTCCTTGAATCCACTACCCAGACAAA  
GGCCCAGCGGCTCTTTGATGCAAAACAAGGCCGAACTTTTACCCAGAGCTGTGCAGATCTAGACAAATGGCTGCA  
CGGCTTGGAGAGTCAGATTGAGTCTGATGACTATGGCAAACACCTGACCAGTGTCAATATCTGTGTAAGGAGCA  
ACAGATGCTGGAGAATCAGATGGAAGTGCAGGAAGAAGGAGATCGAAGAGCTCCAAAGCCAAGCCAGGCCCTGAG  
TCAGGAAGGGAAGAGCACCGACGAGGTAGACAGCAAGCGCCTCACCGTGCAGACCAAGTTCATGGAGTTGCTGGA  
GCCCTTGAACGAGAGGAAGCATAACCTGCTGGCCTCCAAAGAGATCCATCAGTTCAACAGGGATGTGGAGGACGA  
GATCTGTGGGTTGGAGAGAGGATGCCTTTGGCAACTTCCACGGATCATGGCCACAACCTCCAGACTGTGCAGCT  
GTTAATAAAGAAAAATCAGACCCTCCAGAAAGAAATCCAGGGGCACCAGCCTCGCATTGACGACATCTTTGAGAG  
GAGCCAAAACATCGTCACTGACAGCAGCAGCCTCAGCGCTGAGGCCATCAGACAGAGGCTTGCCGACCTGAAGCA  
GCTGTGGGGTCTCCTCATTGAGGAGACAGAGAAACGCCACAGGCGGCTGGAGGAGGCGCACAGGGCCCAGCAGTA  
CTACTTTGACGCTGCTGAGGCCGAAGCCTGGATGAGCGAGCAGGAGCTGTACATGATGTGAGAGGAGAAGGCCAA  
GGATGAGCAGAGTGTGTCTCCATGTTGAAGAAGCACCAGATCTTAGAACAAGCTGTGGAGGACTATGCAGAGAC  
CGTGCATCAGCTCTCCAAGACCAGCCGGGCCCTGGTGGCCGACAGCCATCCTGAAAGTGAGCGCATTAGCATGCG  
GCAGTCCAAAGTGATAAACTGTACGCTGGTCTGAAAGACCTTGCTGAAGAGAGAAGAGGCAAGCTGGATGAGAG  
ACACAGGTTATTCCAGCTCAACCGGGAGGTGGACGACCTGGAGCAGTGGATCGCTGAGAGGGAGGTGGTCGCAGG  
GTCCCATGAAGTGGGACAGGACTATGAGCATGTACGATGTTACAAGAAGCATTCCGGGAGTTTGCCCGAGACAC  
CGGGAACATTGGGCAGGAGCGCGTGGACACGGTCAATCACCTGGCAGATGAGCTCATCAACTCTGGACATTGAGA  
TGCCGCCACCATCGCTGAATGGAAGGATGGCCTCAATGAAGCCTGGGCCGACCTCCTGGAGCTCATTGACACAAG  
AACACAGATTCTTGCCGCTTCCTATGAAGTGCACAAGTTTTACCACGATGCCAAGGAGATCTTTGGGCGTATACA  
GGACAAACACAAGAACTCCCTGAGGAGCTTGGGAGAGATCAGAACACAGTGGAGACCTTACAGAGAATGCACAC  
TACATTTGAGCATGACATCCAGGCTCTGGGCACACAGGTGAGGCAGCTGCAGGAGGATGCAGCCCGCTCCAGGC  
GGCCTATGCGGGTGACAAGGCCGACGATATCCAGAAGCGCGAGAACGAGGTCTGGAAGCCTGGAAGTCCCTCCT  
GGACGCTGTGAGAGCCGAGGGTGCAGGCTGGTGGACACAGGGGACAAGTTCCGCTTCTTCAGCATGGTGCAGCA  
CCTCATGCTCTGGATGGAGGATGTCATCCGGCAGATCGAGGCCAGGAGAAGCCAAGGGATGTATCATCTGTTGA  
ACTCTTAATGAATAATCATCAAGGCATCAAAGCTGAAATTGATGCACGTAATGACAGTTTCACAACCTGCATTGA  
ACTTGGGAAATCCCTGTTGGCGAGAAAACACTATGCATCTGAGGAGATCAAGGAAAAATTACTGCAGTTGACGGA  
AAAGAGGAAAGAAATGATCGACAAGTGGGAAGACCGATGGGAATGGTTAAGACTGATTCTGGAGGTCCATCAGTT  
CTCAAGAGACGCCAGTGTGGCCGAGGCCTGGCTGCTTGGACAGGAGCCGTACCTATCCAGCCGAGAGATAGGCCA  
GAGCGTGGACGAGGTGGAGAAGCTCATCAAGCGCCACGAGGCATTTGAAAAGTCTGCAGCAACCTGGGATGAGAG  
GTTCTCTGCCCTGGAAAGGCTGACTACATTGGAGTTACTGGAAGTGCGCAGACAGCAAGAGGAAGAGGAGAGGAA  
GAGGCGGCCGCTTCTCCCGAGCCGAGCAGAAAGTTTTAGAGGAAGCCGAGTCCCAGCAGCAGTGGGATACTTC  
AAAAGGAGAACAAGTTTTCCCAAACGGTTTGCCAGCTGAACAGGGATCTCCACGGATGGCAGAAACGGTGGACAC  
AAGCGAAATGGTCAACGGCGCTACAGAACAAAGGACGAGCTCTAAAGAGTCCAGCCCCATCCCTCCCCGACCTC  
TGATCGTAAAGCCAAGACTGCCCTCCCAGCCAGAGTGCCGCCACCTTACCAGCCAGAACCCAGGAGACACCTTC  
GGCCAGATGGAAGGCTTCTCAATCGGAAACACGAGTGGGAGGCCCAATAAGAAAGCCTCAAGCAGGTCTCTG  
GCACAATGTTTATTGTGTCATAAATAACCAAGAAATGGGTTTCTACAAAGATGCAAAGACTGCTGCTTCTGGAAT  
TCCCTACCACAGCGAGGTCCCTGTGAGTTTGAAAGAAGCTGTCTGCGAAGTGGCCCTTGATTACAAAAGAAGAA  
ACACGTATTCAAGCTAAGACTAAATGATGGCAATGAGTACCTCTTCCAAGCCAAAGACGATGAGGAAATGAACAC

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**FIGURE 746C**

ATGGATCCAGGCTATCTCTTCCGCCATCTCCTCTGATAAACACGAGGTGTCTGCCAGCACCCAGAGCACGCCAGC  
ATCCAGCCGCGCGCAGACCCTCCCCACCAGCGTCGTCACCATCACCAGCGAGTCCAGTCCCGGCAAGCGGGAAAA  
GGACAAAGAGAAAGACAAAGAGAAGCGGTTTCAGCCTTTTTGGCAAAAAGAAATTGACTCCTTTCCTTCACCTCCT  
GCCCTTCTCTTACCTTTTCAGTGAAATTCAGCATGCAAGCTCAGAACCAACACATTACTCTCTGTGCCTAATGT  
TCCTCAATGTGGTTGATTTATTTTTTTTTTTAATTTATAGAGCATTCGGGGGGGGTGGGG

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**FIGURE 747**

MTTIVATDYDNIEIQQQYSDVNNRWDVDDWDNENSSARLFERSRIKALADEREAVQKKTFTKWVNSHLARVSCRI  
TDLYTDLRDGRMLIKLLEVLSEGERLPKPTKGRMRIHCLENVDKALQFLKEQRVHLENMGSHDIVDGNHRLTLGLI  
WTIILRFQIQDISVETEDNKEKKSADALLWCQMKTAGYPNVNIHNFTTSWRDGMAFNALIHKHRPDLIDFDKL  
KKSNAHYNLQNAFNLAEQHLGLTKLLDPEDISVDHPDEKSIITYVVITYYHYFSKMKALAVEGKRIGKVLDNAIET  
EKMIKEYESLASDLEWIEQTIIILNNRKFANSLVGVQQQLQAFNTYRTVEKPPKFEKGNLEVLFTIQSKMRA  
NNQKVYMPREGKLISDINKAWERLEKAEHERELALRNELIRQEKLEQLARRFDRKAAMRETWLSNQRLVSQDNF  
GFDLPAVEAATKKHEAIETDIAAYEERVQAVVAVARELEAENYHDIKRITARKDNVIRLWEYLLELLRARRQRLE  
MNLGLQKIFQEMLYIMDWMDEMVLVLSQDYGKHLGVEDLLQKHTLVEADIGIQAERVGVNASAQKFATDGE  
YKPCDPQVIRDRVAHMEFCYQELCQLAAERRARLEESRRLWKFFWEMAEEEGWIREKEKILSSDDYGKDLTSVMR  
LLSKHRAFEDEMSGRSGHFEQAIKEGEDMIAEEHFSEKIRERIIYIREQWANLEQLSAIRKKRLEEASLLHQFQ  
ADADDIDAWMLDILKIVSSSDVGHDYESTQSLVKKHKDVAEEIANYRPTLDTLHEQASALPQEHAEPSDVRGRLS  
GIEERYKEVAELTRLRKQALQDTLALYKMFSEADACELWIDEKEQWLNMMQIPEKLEDLEVIQHRFESLEPEMNN  
QASRVAVVNQIARQLMHSGHPSEKEIKAQQDKLNTRWSQFRELVDKRDALLSALS IQNYHLECNETKSWIREKT  
KVIESTQDLGNDLAGVMALQKLTGMERDLVAIEAKLSDLQKEAEKLESEHPDQAQAILSR LAEISDVWEEMKTT  
LKNREASLGEASKLQQFLRDLDDFQSWLSRTQTAIASEDMPNTLTAEKLLTQHENIKNEIDNYEEDYQKMRDMG  
EMVTQGQTD AQYMLRQRLQALDTGWNELHKMWENRQNLSSQSHAYQQFLRDTKQAEAFNNQYVLAHTEMP TT  
LEGAEAAIKKQEDFMTTMDANEEKINAVVETGRRLVSDGNINS DRIQEKVDSIDDRHRKNRETASELLMRLKDNR  
DLQKFLQDCQELSLWINEKMLTAQDMSYDEARNLH SKWLKHQAFMAELASNKEWLDKIEKEGMQLISEKPETEAV  
VKEKLTGLHKMWEVLESTTQTAKARLFDANKAELFTQSCADLDKWLHGLESQIQSDDYGKHLTSVNILLKKQOML  
ENQMEVRKKEIEELQSQAQALSQEGKSTDEVDSKRLTVQTKFMELLEPLNERKHNLLASKEIHQFNRDVEDEILW  
VGERMPLATSTDHGHNLQTVQLLIKKNQTLQKEIQGHQPRIDDI FERSQNIIVTDSSSLSAEAIQRRLADLKQLWG  
LLIEETEKRRHRLLEEAHRAQQYYFDAEAEAWMSEQEL YMMSEEKAKDEQSAVSMLKKHQILEQAVEDYAETVHQ  
LSKTSRALVADSHPESEIRISMRQSKVDKLYAGLKD LAEERRGKLDERHRLFQLNREVDLEQWIAEREV VAGSHE  
LGQDYEHVTMLQERFREFARDTGNIGQERVDTVNHLADEL INSGHSDAATIAEWKDGLNEAWADLLELIDTRTQI  
LAASYELHKFYHDAKEIFGRIQDKHKKLPEELGRDQNTVETLQRMHTTFEHDIQALGTQVRQLQEDAARLQAAYA  
GDKADDIQKRENEVLEAWKSLLDACESRRVRLVDTGDKFRFFSMVRDMLWMEDVIRQIEAQEKPRDVSSVELLM  
NNHQGIKAEIDARNDSTTCIELGKSL LARKHYASEEIKEKLLQLTEKRKEMIDKWEDRWELRLILEVHQFSRD  
ASVAEAWLLGQEPYLSREIGQSVDEVEKLIK RHEAFEKSAATWDERFSALERLTTLLELLEVRROQEEEEERKRRP  
PSPEPSTKVSEEAESQQQWDTSKGEQVSQNGLP AEQGSPRMAETVDTSEMVNGATEQRTSSKESSPIPSPTSDRK  
AKTALPAQSAATLPARTQETPSAQMEGFLNRKHEWEAHNKKASSRSWHNVYCVINNQEMGFYKDAKTAASGIPYH  
SEVPVSLKEAVCEVALDYKKKKHVFKLRLNDGNEYLFQAKDDEEMNTWIQAISSAISSDKHEVSASTQSTPASSR  
AQTLPTSVVTITSESSPGKREKDKEDKEKRFSLFGKKK

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**FIGURE 748**

CACAACCGCCCGCGGCTCTGAGACGCGGCCCCGGCGGCGGCGGCAGCAGCTGCAGCATCATCTCCACCCTCCAGC  
CATGGAAGACGAGGAGGAAGAAGAGGAGGAGGAAGAGGAGGACGAGGACGAAGACCTGGAGGAGCTGGAGGTGCT  
GGAGAGGAAGCCCGCCCGGGCTGTCCGCGGCCCCAGTGCCCACCGCCCCCTGCCGCCGGCGCGCCCCCTGATGGA  
CTTCGGAAATGACTTCGTGCCGCCGGCGCCCCGGGGACCCCTGCCGGCCGCTCCCCCGTCGCCCCGGAGCGGCA  
GCCGTCTTGGGACCCGAGCCCGGTGTCGTCGACCGTGCCCGCGCCATCCCCGCTGTCTGCTGCCGCAGTCTCGCC  
CTCCAAGCTCCCTGAGGACGACGAGCCTCCGGCCCGG

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**FIGURE 749**

TTCTTCCTTTTCGATCCGCCATCTGCGGTGGAGCCGCCACCAAAATGCCAGATTTTCGTGAAAACCCTTACGGGGA  
AGACCATCACCCTCGAGGTTGAACCCTCGGATACGATAGAAAATGTAAAGGCCAAGATCCAGGATAAGGAAGGAA  
TTCCTCCTGATCAGCAGAGACTGATCTTTGCTGGCAAGCAGCTGGAAGATGGACGTACTTTGTCTGACTACAATA  
TTCAAAAGGAGTCTACTCTTCATCTTGTGTTGAGACTTCGTGGTGGTGCTAAGAAAAGGAAGAAGAAGTCTTACA  
CCACTCCCAAGAAGAATAAGCACAAAGAGAAAGAAGGTTAAGCTGGCTGTCCTGAAATATTATAAGGTGGATGAGA  
ATGGCAAAATTAGTCGCCTTCGTCGAGAGTGCCCTTCTGATGAATGTGGTGCTGGGGTGTTTATGGCAAGTCACT  
TTGACAGACATTATTGTGGCAAATGTTGTCTGACTTACTGTTTCAACAAACCAGAAGACAAGTAACTGTATGAGT  
TAATAAAAGACATGAACTAACAAAA

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**FIGURE 750**

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQORLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLRG  
GAKRKKKSYTTPKKNKHKRKKVLAFLKYYKVDENGKISRLRRECPSECGAGVFMASHFDRHYCGKCCLTYCF  
NKPEDK

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**FIGURE 751**

GGCACGAGCAGAATCCAGGGGCCCGGGGCTGTAGATTCCCTTGACAAGGATATCCTAGCGGCGAAACAACACCGTA  
CTGGGAGTCAGAACGTCTGGGTTCTAGTCTTGACTGCCATTAACTAGCGGTATGACATTGGAGAAGCTTTTTTGA  
CCCTTCTGGATTTCGGTTTCCTTTTCTGTAAAATGAGGAGCTTGGAAGATCCGGAAAATGAGGCCCATAGGAAAC  
AAGTGACTTGCTGAGTCCAGATAAACTGACTGTCAGAGAGAAAACATGAACCAGAAAGCTACTGAAGTTGGAGAAC  
TTGCTACGATTTCACTATTTATAGGCAACTGCACAGTCTGTGTCAAAGAAGAGCATTAAAGACAGTGGAGGCAT  
GGGTTTTTCATCTGCTTACCCGTGTGTGGACAGCTCAACTGTGTGCCTGGCCCTGGCCAACAGATGTGCTCAATGGG  
GCTGCTTTATCTCAGTATAGGCTTCTAGTAACAAAAAAGGAAGAAGGACCATGGAAATCTCAGTTATCTTCAACA  
AAATCTAAAAAGGTGGTAGAAGTATGGATTGGAATGACTATTGAGGAACTGGCCAGGGCAATGGAAAAAACACA  
GATTATGTATATGAAGCTTTATTGAACACTGATATTGACATAGATTCACTGGAAGCAGACTCACATTTAGATGAA  
GTCTGGATCAAGAAGTGATAACGAAGGCAGGGATGAAGTTAAAGTGGAGTAAATTAACAGGACAAAGTCAGA  
AAAAATAAAGATGCTGTAAGAAGGCCCCAGGCAGATCCAGCTTTATTAACCCCAAGGTCCCCAGTTGTTACTATA  
ATGGGCCATGTTGATCACGGGAAAACGACATTACTTGACAAATTCGAAAACTCAAGTGGCAGCAGTGGAACT  
GGAGGCATCACTCAGCACATTGGTGCCTTTCTTGCTCTCTGCTTCTGGGGAAAAGATAACTTTTCTTGATACT  
CCAGGACATGCTGCTTTCTCAGCAATGAGAGCCAGAGGTGCTCAGGTCACTGACATTGTTCGTATTGGTTGTAGCT  
GCAGATGATGGAGTGATGAAACAACTGTAGAATCTATTGAGCATGCCAAAGATGCACAGGTTCCCTATTATCCTT  
GCCGTAAATAAATGTGACAAAGCTGAGGCTGATCCTGAGAAAGTGAAAAAGAGCTGCTGGCTTACGATGTGGTA  
TGTGAAGATTATGGAGGTGATGTTCAAGCAGTGCCTGTCTCCGCACTTACGGGCGATAATCTGATGGCTTTGGCA  
GAAGCAACAGTTGCTCTTGAGAAATGTTAGAATTGAAAGCAGATCCCAATGGTCCAGTGAAGGAACAGTAATA  
GAGTCTTTCACAGACAAAGGAAGAGGTCTTGTTACTACAGCTATAATTCAAAGAGGAACTTTAAGAAAAGGCTCT  
GTTCTGGTTGCTGGAAAATGTTGGGCAAAGTACGCTTAATGTTTGATGAAAATGGAAAAACAATTGATGAGGCC  
TATCCCAGCATGCCAGTGGGAATTACAGGCTGGAGAGACCTTCCTTCTGCAGGAGAAGAAATCTTGAAGTAGAA  
TCTGAGCCAAGGGCACGTGAAGTTGTTGACTGGAGGAAATATGAACAAGAACAGGAGAAAGGTGAGGAGGATCTG  
AAAATAATAGAAGAAAAGCGAAAGGAACACAAAGAAGCACATCAGAAAGCCCGTGAGAAGTATGGCCATCTACTG  
TGGAAGAAGAGATCAATTCTACGGTTTTTAGAAAGAAAAGAACAATAACCTTAAAGCCAAAAGAGAAAAGGGAA  
AGAGATTCAAATGTACTTTCTGTGATTATTAAGGTGATGTTGATGGTTCTGTTGAGGCCATTTTGAACATTATA  
GATACCTATGATGCTTCACACGAGTGTGAAGTAGAATTAGTACATTTTGGAGTGGGTGATATAAGTGCAAATGAT  
GTTAACCTTGCTGAAACATTTGATGGTGTATATATGGCTTTAATGTGAATGCAGGCAATGTTATCCAACAGTCA  
GCTGCAAAAAAAGGAGTAAAAATTAACTTCACAAAATAATTTACCGTCTTGTTGAAGATTTGCAAGAGGAACTG  
AGCAGCAGATTACCTGTGCTGTGGAAGAGCACCCAGTAGGTGAGGCATCTATACTAGCTACCTTCTGTAAACA  
GAAGGGAAAGAAAAAGTTTCTGTGGCTGGCTGCAGAGTCCAAAAGGGACAGTTAGAAAAACAAAAAAATTTAAA  
CTAACCCGTAATGGACATGTAATTTGGAAGGGCTCATTAACTCATTGAAACACCATAAAGATGACATTTCAATT  
GTCAAAACGGGAATGGATTGTGGTCTCAGTTTAGATGAAGACAATATGGAATTTCAAGTGGGAGACAGAATTGTT  
TGTTATGAAGAAAAGCAAATTCAGCCAAGACTTCTTGGGATCCAGGATTTTAAATTACATTAAAAATGTAAAT  
AACTCA

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**FIGURE 752**

MNQKLLKLENLLRFHTIYRQLHSLCQRRALRQWRHGFSSAYPVWTAQLCAWPWPPTDVLNGAALSQYRLLVTKKEE  
GPWKSQLSSTKSKKVVEVWIGMTIEELARAMEKNTDYVYEALLNTDIDIDSLEADSHLDEVWIKVITKAGMKLK  
WSKLGQDKVRKNKDAVRRPQADPALLTPRSPVVTIMGHVDHGKTTLLDKFRKTQVAAVETGGITQHIGAFVLSLP  
SGEKITFLDTPGHAAF SAMRARGAQVTDIVVLVVAADDGVMKQTVESIQHAKDAQVP IILAVNKCDKAEADPEKV  
KKELLAYDVVCEDYGGDVQAVPV SALTGDNLMALAEATVALAEMLELKADPNPVEGTVIESFTDKGRGLVTTAI  
IQRGTLRKGSVLVAGKCWAKVRLMFDENGKTIDEAYPSMPVGITGWRDLP SAGEEILEVESEPRAREVVDWRKYE  
QEQEKQEDLKIIEEKRKEHKEAHQKAREKYGHLLWKKRSILRFLEKEQIPLKPKEKRERDSNVLSV IIKGDVD  
GSVEAILNIIDTYDASHECELELVHFGVGD ISANDVNLAETFDGVIYGFNVNAGNVIQQSAAKKGVKIKLHKI IY  
RLVEDLQEELSSRLPCAVEEHPVGEASILATFSVTEGKKKVPVAGCRVQKGQLEKQKKFKLTRNGHVIWKGSITS  
LKHHKDDISIVKTGMDCGLSLDEDNMEFQVGDRIVCYEEKQIQAKTSWDPGF



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**FIGURE 753**

GCGTGCCGGGTGTCATGGCGGCCTGCAGGTACTGCTGCTCGTGCCTCCGGCTCCGGCCCCCTGAGCGATGGTCCTT  
TCCTTCTGCCACGGCGGGATCGGGCACTCAGGCTGCAAGTGCAGGACTATGGAGTAGCGCAGGGTCTCGAG  
CTGTGGCCGTGGACTTAGGCAACAGGAAATTAGAAATATCTTCTGGAAAGCTGGCCAGATTTGCAGATGGCTCTG  
CTGTAGTACAGTCAGGTGACACTGCAGTAATGGTGCAGCGGTGAGTAAACAAAACCTTCCCTTCCAGTTTA  
TGCTTTTGGTGGTTGACTACAGACAAAAGCTGCTGCAGCAGGTAGAATTTCCACAAACTATCTGAGAAGAGAGA  
TTGGTACTTCTGATAAAGAAATTCTAACAAGTCGAATAATAGATCGTTCAATTAGACCGCTCTTTCCAGCTGGCT  
ACTTCTATGATACACAGGTTCTGTGTAATCTGTTAGCAGTAGATGGTGTAAATGAGCCTGATGTCTAGCAATTA  
ATGGCGCTTCCGTAGCCCTCTCATTATCAGATATTCTTGGAAATGGACCTGTTGGGGCAGTACGAATAGGAATAA  
TTGATGGAGAATATGTTGTTAACCAACAAGAAAAGAAATGTCTTCTAGTACTTTAAATTTAGTGGTTGCTGGAG  
CACCTAAAAGTCAGATTGTCATGTTGGAAGCCTCTGCAGAGAACATTTTACAGCAGGACTTTTGCCATGCTATCA  
AAGTGGGAGTGAAATATACCAACAATAATTACAGGCAATTCAGCAGTTGGTAAAAGAACTGGTGTACCAAGA  
GGACACCTCAGAAGTTATTTACCCCTTCGCCAGAGATTGTGAAATATACTCATAAACTTGCTATGGAGAGACTCT  
ATGCAGTTTTTACAGATTACGAGCATGACAAAGTTTCCAGAGATGAAGCTGTAAACAAAATAAGATTAGATACGG  
AGGAACAACTAAAAGAAAAATTTCCAGAAGCCGATCCATATGAAATAATAGAATCCTTCAATGTTGTTGCAAAGG  
AAGTTTTTAGAAGTATTGTTTTGAATGAATACAAAAGGTGCGATGGTGGGATTTGACTTCACTTAGGAATGTAA  
GTTGTGAGGTAGATATGTTTAAACCCCTTCATGGATCAGCATTATTTCAAAGAGGACAAACACAGGTGCTTTGTA  
CCGTTACATTTGATTCAATTAGAATCTGGTATTAAGTCAGATCAAGTTATAACAGCTATAAATGGGATAAAAGATA  
AAAATTTTCATGCTGCACTACGAGTTTCTCTTATGCAACTAATGAAATTGGCAAAGTCAGTGGTTTAAATAGAA  
GAGAACTTGGGCATGGTGTCTTGTCTGAGAAAGCTTTGTATCCTGTTATTTCCCGAGATTTTCTTTTACCATAA  
GAGTTACATCTGAAGTCCTAGAGTCAAATGGGTCTCTCTATGGCATCTGCATGTGGCGGAAGTTTAGCATTAA  
TGGATTACAGGGTTCCAATTTCTCTGCTGTTGCAGGCGTAGCAATAGGATTGGTCACCAAAACCGATCCTGAGA  
AGGGTGAAATAGAAGATTATCGTTTGTCTGACAGATATTTTGGGAATTGAAGATTACAATGGTGACATGGACTTCA  
AAATAGCTGGCACTAATAAAGGAATAACTGCATTACAGGCTGATATTAAATTACCTGGAATACCAATAAAAAATTG  
TGATGGAGGCTATTCAACAAGCTTCAGTGGCAAAAAAGGAGATATTACAGATCATGAACAAAACCTATTTCAAAC  
CTCGAGCATCTAGAAAAGAAAATGGACCTGTTGTAGAAAAGTTCAGGTTCCATTATCAAAACGAGCAAAATTTG  
TTGGACCTGGTGGCTATAACTTAAAAAACTTCAGGCTGAAAACAGGTGTAATATTAGTCAGGTGGATGAAGAAA  
CGTTTTCTGTATTTGCACCAACACCCAGTGCTATGCATGAGGCAAGAGACTTCATTACTGAAATCTGCAAGGATG  
ATCAGGAGCAGCAATTAGAATTTGGAGCAGTATATACCGCCACAATAACTGAAATCAGAGATACTGGTGTAAATGG  
TAAAAATTATATCCAAATATGACTGCGGTACTGCTTCATAACACACAACCTTGATCAACGAAAGATTAAACATCCTA  
CTGCCCTAGGATTAGAAGTTGGCCAAGAAATTCAGGTGAAATACTTTGGACGTGACCCAGCCGATGGAAGAATGA  
GGCTTTCTCGAAAAGTGCTTCAGTCGCCAGCTACAACCGTGGTCAGAACCTTTGAATGACAGAAGTAGTATTGTAA  
TGGGAGAACCTATTTACAGTCATCATCTAATTCTCAGTGATTTTTTTTTTTTAAAGAGAATTCTAGAATTCTATT  
TTGTCTAGGGTGATGTGCTGTAGAGCAACATTTTAGTAGTATCTTCCATTGTGTAGATTTCTATATAATATAAAT  
ACATTTTAATTATTTGTACTAAAATGCTCATTACATGTGCCATTTTTTTTAAATTCGAGTAACCCATATTTGTTTA  
ATTGTATTTACATTATAAATCAAGAAATATTTATTATTAAAAGTAAGTCATTTATACATCTTAGAAAAAATTACA  
TAGTTTTGTTTTTACAATTTCTGAAATATATGAAAACTTAGATAGAATATGTCATATGTTATTATAACAGATCTC  
TTCTACATCTTATTTTTCTTCTTTGTATACAGTAGTGACAGTTTACCTTCAGTCATCCTACAGGTACCTCTGT  
GCCCCAACAACTTTACTTGCCTACAACGGTTTACAAACTGGAACAGGCCATATTCAAAGCCAGTGCCATTTCTTC  
AGAAGTGTAAACAGATATAGTGAGTTGAGGGAGCTAATCTGATACACTTTTGATAATATAATGCCTTTCAAATTA  
GTTACCAAAATCATAAACAGAGTGGAATAAATATAAATGAGATTCTAACTAGGATGAATGTGGTAGTAATGATGTA  
TATTTTTCAAATTTACCTAAACAGAAAGATTATTGGCTAAGGCAGGCGGATCATGAGATCAGGAGATCGAGACCA  
TCCTGGCTAACACGGTGAAACCCGCTCTCTACTAAAAGTGCAAAAATTAGCCGGGCGTGGTGGCGCATGCCTGTA  
ATCCTAGCTACTCAGGAGGCTGAGGCAGAAGAATCACTTCAACCCAGGAGGTGGAGGTTGTAGTGAGCCGAGATT  
GCGCCATTGCACTCCAGCTCAGGCAACAAGAGCAAAACTCCGTCTC

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**FIGURE 754**

MAACRYCCSCLRLRPLSDGPFLLPRRDRAITQLQVRALWSSAGSRAVAVDLGNRKLEISSGKLARFADGSAVVQS  
GDTAVMVTAVSKTKPSQFMPLVVDYRQKAAAAGRIPTNYLRREIGTSDKEILTSRIIDRSIRPLFPAGYFYDT  
QVLCNLLAVDGVNEPDVLAINGASVALSLSDIPWNGPVGAVRIGIIDGEYVVPTRKEMSSSTLNLVVAGAPKSQ  
IVMLEASAENILQQDFCHAIKVGKYTQQIIQGIQQLVKETGVTKRTPQKLFTPSPETVKYTHKLAMERLYAVFT  
DYEHDKVSREAVNKRDLTDEEQLKEKFPEADPYEIIIESFNVVAKEVFRSIVLNEYKRC DGRDLTSLRNVSCVD  
MFKTLHGSALFQRGQTQVLCTVTFDSLESIGKSDQVITAINGIKDNFMLHYEFPPYATNEIGKVTGLNRRELGH  
GALAEKALYPVIPRDFPFTIRVTSEVLESNGSSSMASACGGSALMDSGVPISSAVAGVAIGLVTKTDPEKGEIE  
DYRLTDLGIEDYNGDMDFKIAGTNKGITALQADIKLPGIPIKIVMEAIQQASVAKKEILQIMNKTISKPRASR  
KENGPPVETVQVPLSKRAKFGPGGYNLKKLQAETGVTISQVDEETFSVFAPTPSAMHEARDFITEICKDDQEQQ  
LEFGAVYTATITEIRDTGVMVKLYPNMTAVLLHNTQLDQRKIKHPTALGLEVGQEIQVKYFGRDPADGRMRLSRK  
VLQSPATTVVRTLNDRSSIVMGEPISQSSSNSQ

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**FIGURE 755**

GACAAGATGGCCACACCGGCGGTACCAGCAAGTGCTCCTCCGGCCACGCCAGCCCCAGTCCCGGCGGCGGTCCCA  
GCCTCTGCCCCAGCCTCAGTTCCAGCGCCAACGCCAGCACCGGCTGCGGCTCCGGTTCCCGCTGCGGCTCCAGCC  
TCATCCTCAGACCCTGCGGCAGCATCGGCTACAAC TGCGGCTCCTGGCCAGACCCCGGCTCAGCGCAAGCTCCA  
GCGCAGACCCCAGCGCCCGCTCTGCCTGGTCTCTTCCAGGGCCCTTCCCGGCGGCGCGGTGGTCAGGCTG  
CACCCAGTCATTTTGGCCTCCATTGTGGACAGCTACGAGAGACGCAACGAGGGTGCTGCCCAGATTATCGGGACC  
CTGTTGGGAAC TGTCGACAAACACTCAGTGGAGGTCACCAATTGCTTTT CAGTGCCGCACAATGAGTCAGAAGAT  
GAAGTGGCTGTTGACATGGAATTTGCTAAGAATATGTATGAACTGCATAAAAAAGTTTCTCCAAATGAGCTCATC  
CTGGGCTGGTACGCTACAGGCCATGACATCACAGAGCACTCTGTGCTGATCCATGAGTACTACAGCCGAGAGGCC  
CCCAACCCCATCCACCTCACTGTGGACACAAGTCTCCAGAACGGCCGCATGAGCATCAAAGCCTATGTCAGCACT  
TTAATGGGTGTCCCTGGGAGGACCATGGGAGTGATGTTTACACCTCTGACAGTGAAATACGCATACTATGACACT  
GAACGCATCGGAGTTGAGCTGATCATGAAGACCTGCTTTAGCCCCAACAGAGTGATTGGACTCTTAAGTGACTTG  
CAGCAAGTAGGAGGGGCATCAGCTCGCATCCAGGATGCCCTGAGTACAGTGTTGCAATATGCAGAGGATGTACTG  
TCTGGAAAGGTGTCAGCTGACAATACTGTGGGCCGCTTCTGATGAGCCTGGTTAACCGAGTACCGAAAATAGTT  
CCCGATGACTTTGAGACCATGCTCAACAGCAACATCAATGACCTTTTGATGGTGACCTACCTGGCCAACCTCACA  
CAGTCACAGATTGCCCTCAATGAAAACTTGTAACCTGTGAATGGACCCCAAGCAGTACACTTGCTGGTCTAGG  
TATTAACCCCAAGGACTCAGAAGTGAAGGAGAAATGGGTTTTTTGTGGTCTTGAGTCACACTGAGATAGTCAGTTG  
TGTGTGACTCTAATAAACGGAGCCTACCTTTTGT

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**FIGURE 756**

MATPAVPASAPPATPAPVPAAVPASAPASVPAPTAPAPAAAPVPAAPASSSDPAAASATTAAPGQTPASAQAPAQ  
TPAPALPGPALPGFFPGGRVVRLHPVILASIVDSYERRNEGAARVIGTLLGTVDKHSVEVTNCFSVPHNESEDEV  
AVDMEFAKNMYELHKKVSPNELILGWYATGHDITEHSVLIHEYYSREAPNPIHLTVDTSLQNGRMSIKAYVSTLM  
GVPGRTMGVMFTPLTVKYAYYDTERIGVELIMKTCFSPNRVIGLLSDLQQVGGASARIQDALSTVLQYAEDVLSG  
KVSADNTVGRFLMSLVNRVPKIVPDDFETMLNSNINDLLMVTYLANLTQSQIALNEKLVNL

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**FIGURE 757**

GTGGAGACTCGATTGTTGATGACAGCGGAAGAATGATAACAAAATGCCGGAGCGAGATAGTGAGCCGTTCTCCA  
ACCCTTTGGCCCCTGATGGCCACGATGTGGATGATCCTCACTCCTTCCACCAATCAAACTCACCAATGAAGACT  
TCAGGAACTTCTCATGACCCCCAGGGCTGCACCTACCTCTGCACCACCTTCTAAGTCACGTCACCATGAGATGC  
CAAGGGAGTACAATGAGGATGAAGACCCAGCTGCACGAAGGAGGAAAAAGAAAAGTTATTATGCTAAGCTACGCC  
AACAAGAAATTGAGAGAGAGAGAGAGCTAGCAGAGAAGTACCGGGGTCGTGCCAAGGAACGGAGAGATGGAGTGA  
ACAAAGATTATGAAGAAACCGAGCTTATCAACACCACAGCTAACTACAGGGCTGTTGGCCCCACTACTAAGGCGG  
ACAAATCAGCTGCAGAGAAGAGAAGACAGTTGATCCAGGAGTCCAAATTCTTGGGTGGTGACATGGAACACACCC  
ATTTGGTGAAAGGCTTGGATTTTGTCTCTGCTTCAAAGGTACGAGCTGAGATTGCCAGCAAAGAGAAAGAGGAAG  
AGGAACTGATGGAAAAGCCCCAGAAAGAAACCAAGAAAGATGAGGATCCTGAAAATAAAATTGAATTTAAACAC  
GTCTGGGCCGCAATGTTTACCGAGTGCTTTTTAAGAACAAGCATATAAGCGGAATGAGTTGTTTCTGCCGGGCCG  
CATGGCCTATGTGGTAGGCCTGGATGATGAGTAAGCTGACACAGATATCCCCACCCTCTTATCCGCAGCAAGGT  
TGACTGCCCCACCATGGAGGCCAGACCATACTGACCACAAATGATATTGTCATTAGCAAGCTTACCCAGTTGCT  
TTCATACCTGAGGCAGGGAACCCGTAACAAGAAGCTTAAGAAGAAGGATAAAGGGAAGCTGGAAGAGAAGAAACC  
TGCTGAGGCTGACAGGAGTATTTTCGAAGACATTGGGGATTATACACCCTCCACAATCAAGACACCTTGGGACAA  
GGAGCGGGAGAGATATCGGGAACGGGAGCGTGATCAGGAGACAGAGACCGTGACCGAGAGCGAGAGCGAGAACGA  
GATCAGGAGCGAGAACGAGATCGGGAACGAGAGAGAGAAGAGGAAAAGAAGAGACACAGCTACTTTGAGAAGCCA  
AAAGTACATGATGAGTCCGTGGACGTTGACAAAGGACCTGGGTCTGGCCAAGGAGTTGATCAAGTCCATCAATGAA  
AAGTTTGCTGGGTCTGCTGGCTGGGAAGGCACAGAATCGCTGAAAATTGCAGAAGACAAAAGCAGCTGAGAGAT  
TTCTTTGGCATGTCCAACAGTTATGCAGAGTGCTATCCAGCCACGATGGATGACATGGCTGTGGATAGTGATGAG  
GAGGTGGATTATAGCAAAATGGACCAGGGTAACAAGAAGAGAACCCTTAAGCCGTTGGGACTTTGATACCCAGGAA  
GACTACAGCGAGTATATGAACAACAAGAGGCTTTGCCCAAGGCTGCATTCCAGTATGGTATCAAAATGTCTGAA  
GGGCGGAAAACCAGACGCTTCAAGGAAACCAATGACAAAGCAGCGCTCGATTGCCAGTGGAAGATTAGTGCAATC  
ATTGAGAAGAGGAAGAAGATGGAAGCTGATGGGGTTGAAGTCAAAAGACCAAAATACTAA

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**FIGURE 758**

MPERDSEPF SNPLAPDGHVDVDPHSFHQSKLTNEDFRKLLMTPRAAPTSAPPSKSRHHEMPREYNEDEDPAARRR  
KKKSYAKLRQQEIERERELAKEYRGRAKERRDGVNKDYETELINTTANYRAVGPTTKADKSAAEKRRQLIQES  
KFLGGDMEHHLVKGLDFALLQVRAEIASKEKEEEEELMEKPQKETKKDEDPENKIEFKTRLGRNVYRVLFKNKH  
ISGMS CSCRAAWPMW

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**FIGURE 759**

ATGCCCGAGAATGTGGCACCCCGGAGCGGGGCGACTGCCGGGGCTGCCGGCGGCCGCGGGAAAGGCGCCTATCAG  
GACCGCGACAAGCCAGCCAGATCCGCTTCAGCAACATTTCCGCCGCCAAAGCGGTTGCTGATGCTATTAGAACA  
AGCCTTGGACCAAAAGGAATGGATAAAATGATTCAAGATGGAAAAGGTGATGTAACCATTACAAATGATGGTGCT  
ACCATTTCTGAAACAAATGCAAGTATTACATCCAGCAGCCAGAATGCTGGTGGAGCTGTCTAAGGCTCAAGATATA  
GAAGCAGGAGATGGCACCACATCAGTAGTCATCATTGCTGGCTCCCTCTTAGATTCTTGTACCAAGCTTCTTCAG  
AAAGGGATTTCATCCAACCATCATTTCTGAGTCATTCCAGAAGGCCCTGGAAAAGGGCATTGAAATCTTGACTGAC  
ATGTCTCGACCTGTGGAACTGAGTGACAGAGAACTTTGTTAAATAGTGCAACCACTTCACTGAACTCAAAGGTG  
GTTTCTCAGTATTCAAGTCTGCTTTCTCCAATGAGTGTAATGCAGTGATGAAAGTGATTGACCCAGCCACAGCC  
ACCAGTGTAGATCTTAGAGATATTAAAATAGTTAAGAAGCTTGGTGGGACAATTGATGACTGTGAGTTGGTGGAA  
GGGCTGGTTCTCACCCAAAAAGTGTCAAATTTCTGGCATAACCAGAGTTGAAAAGGCCAAGATTGGGCTTATTCAG  
TTTTGCTTATCTGCTCCCAAAACAGACATGGATAATCAAATAGTGGTTTCTGACTATGCCAGATGGACCGAGTG  
CTGCGAGAAGAGAGAGCCTATATTTTAAATTTAGTGAAGCAAATTAACAAAAACAGGATGTAATGTCCTTCTCATA  
CAGAAATCTATTCTAAGAGATGCTCTTAGTGATCTTGCATTACACTTTCTGAATAAAATGAAGATCATGGTGATT  
AAGGATATTGAAAGAGAAGACATTGAATTCATTTGTAAGACAATTGGAACCAAGCCAGTTGCTCATATTGACCAA  
TTTACTGCTGACATGCTGGGTTCTGCTGAGTTAGCTGAGGAGGTCAATTTAAATGGTTCTGGCAAACCTGCTCAAG  
ATTACAGGCTGTGCCAGCCCTGGAAAAACAGTTACAATTGTTGTTCTGTTAGTGAAGAAGAGGGCTCTTATTGCAGGAGGT  
GGTGCTCCAGAAATAGAGTTGGCCCTAGCATTAACTGAATATTCACGAACACTGAGTGGTATGGAATCCTACTGC  
GTTTCGTGCTTTTGCAGATGCTATGGAGGTCATTCCATCTACACTAGCTGAAAATGCCGGCCTGAATCCCATTTCT  
ACAGTAACAGAACTAAGAAACCGGCATGCCAGGGAGAAAAAACTGCAGGCATTAATGTCCGAAAGGGTGGTATT  
TCCAACATTTTGGAGGAACTGGTTGTCCAGCCTCTGTTGGTATCAGTCAGTGCTCTGACTCTTGCAACTGAAACT  
GTTTCGGAGCATTCTGAAAATAGATGATGTGGTAAACACTCGATAATCTGGATAACTGACTAGCACCATTATGATC  
ACCAGTATTGTGGCTGGAATGGAAGAAGATCACCTTGGTGTTCCTTGTTTGGGAAGATTATTTCTCTGAATTTCT  
GGGCTTGGTCTTCCAGTTGGCATTTCCTGAAGTTGTATTGAAACAATTTAATGAAAATATTAAATATTTGGTTT  
CAAAAGGCAGATTTATCTTCTCCAACATTCTGTTATTTCTGATACTTTTGAAAACTAATAAAAACTAATAAAA  
GAAGCGTA

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**FIGURE 760**

MPENVAPRSGATAGAAGGRGKGAYQDRDKPAQIRFSNISAAKAVADAIRTS LGPKGMDKMIQDGKGDVTITNDGA  
TILKQMQVLHPAARMLVELSKAQDIEAGDGTTSVVI IAGSLLD SCKLLQKGIHPTII SESFQKALEK GIEILTD  
MSRPVELSDRETLLNSATTSLNSKVVSQYSSLLSPMSVNAV MKVIDPATATSVDLRDIKIVKKLG GTIDDCELVE  
GLVLTQKVSNSGITRVEKAKIGLIQFCLSAPKTDMDNQIVVSDYAQM DRVLREERAYILNLVKQIKKTGC NVLLI  
QKSILRDALSD LALHFLNKM KIMVIKDIEREDIEFICKTIGTKPVAHIDQFTADMLGSAELAE EVNLNGSGKLLK  
ITGCASPGKTVTIVVRGSNKL VIEEAERSIHDALCVIRCLVKKRALIAGGGAPEIELALALTEYSRTL SGMESYC  
VRAFADAMEVIPSTLAENAGLNPISTVTELRNRHAQGEKTAGINVRKGGISNILEELVVQPLLVSVSALT LATET  
VRSILKIDDVVNTR



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**FIGURE 761A**

AGGAAGGAAGGAGCAGTTGGTTCAATCTCTGGTAATCTATGCCAGCAATTATGACAATGTTAGCAGACCATGCAG  
CTCGTCAGCTGCTTGATTTTCAGCCAAAACTGGATATCAACTTATTAGATAATGTGGTGAATTGCTTATACCATG  
GAGAAGGAGCCCAGCAAAGAATGGCTCAAGAAGTACTGACACATTTAAAGGAGCATCCTGATGCTTGGACAAGAG  
TCGACACAATTTTGGAAATTTTCTCAGAATATGAATACGAAATACTATGGACTACAAATTTTGGAAAATGTGATAA  
AAACAAGGTGGAAGATTCTTCCAAGGAACAGTGCGAAGGAATAAAAAATACGTTGTTGGCCTCATTATCAAGA  
CGTCATCTGACCCAACTTGTGTAGAGAAAGAAAAGGTGTATATCGGAAAATTAAATATGATCCTTGTTCAGATAC  
TGAAACAAGAATGGCCCAAACATTGGCCAACCTTTATCAGTGATATTGTTGGAGCAAGTAGGACCAGCGAAAAGTC  
TCTGTCAAAATAATATGGTGATTCTTAAACTCTTGAGTGAAGAAGTATTTGATTTCTCTAGTGGACAGATAACCC  
AAGTCAAATCTAAGCATTAAAAAGACAGCATGTGCAATGAATTCTCACAGATATTTCAACTGTGTGAGTTTGTAA  
TGAAAATTTCTCAAATGCTCCACTTGTACATGCAACCTTGGAACATTGCTCAGATTTCTGAACTGGATTCCCC  
TGGGATATATTTTGGAGACCAAATTAATCAGCACATTGATTTATAAGTTCCCTGAATGTTCCAATGTTTCGAAATG  
TCTCTCTGAAGTGCTCACTGAGATTGCTGGTGTGAGTGTAAAGCCAATATGAAGAACAATTTGTAACACTATTTA  
CTCTGACAATGATGCAACTAAAGCAGATGCTTCCCTTTAAATACCAATATTCGACTTGCCTACTCAAATGGAAAAG  
ATGATGAACAGAATTCATTCAAATCTCAGTTTGTCTCTGACCTTTCTTAAGGAACATGATCAACTTATAG  
AAAAAGATTAAATCTCAGGGAACTCTTATGGAGGCCCTTCATTATATGTTGTTGGTATCTGAAGTAGAAGAAA  
CTGAAATCTTTAAATTTGTCTTGAATACTGGAATCATTGGCTGCTGAACTCTATAGAGAGAGTCCATTCTCTA  
CATCTGCCCTCTCCGTTGCTTTCTGGAAGTCAACATTTTGATGTTCCCTCCAGGAGACAGCTATATTTGCCCATGT  
TATTCAAGGTCCGTTTATTAATGGTTAGTGAATGGCTAAACCAGAGGAAGTATTGGTTGTAGAGAATGATCAAG  
GAGAAGTTGTGAGAGAATTCATGAAGGATACAGATTCCATAAATTTGTATAAGAATATGAGGGAAACATTGGTTT  
ATCTTACTCATCTGGATTATGTAGATACAGAAAGAATAATGACAGAGAAGCTTCACAATCAAGTGAATGGTACAG  
AGTGGTCATGGAAAATTTGAATACATTGTGTTGGGCAATAGGCTCCATTAGTGGAGCAATGCATGAAGAGGACG  
AAAAACGATTTCTTGTTACTGTTATAAAGGATCTATTAGGATTATGTGAACAGAAAAGAGGCAAAGATAATAAG  
CTATTATTGCATCAAATATCATGTACATAGTAGGTCAATACCCACGTTTTTTGAGAGCTCACTGGAAATTTCTGA  
AGACTGTAGTTAAACAAGCTGTTTGAATTCATGCATGAGACCCATGATGGAGTCCAGGATATGGCTTGTGATACTT  
TCATTAATAATAGCCCAAAAATGCCGCAGGCATTTTCGTTTCAGGTTTCAGGTTGGAGAAGTGATGCCATTTATTGATG  
AAATTTTGAACAACATTAACACTATTATTTGTGATCTTCAGCCTCAACAGGTTTCATACGTTTTATGAAGCTGTGG  
GGTACATGATTGGTGCACAAACAGATCAAACAGTACAAGAGCACTTGATAGAAAAGTACATGTTACTCCCTAATC  
AAGTGTGGGATAGTATAATCCAGCAGGCAACCAAAAATGTGGATATACTGAAAGATCCTGAAACAGTCAAGCAGC  
TTGGTAGCATTTTGAACAACAATGTGAGAGCCTGCAAAGCTGTTGGACACCCCTTTGTAATTCAGCTTGGAAAGAA  
TTTATTTAGATATGCTTAATGTATACAAGTGCTCAGTGAAAATATTTCTGCAGCTATCCAAGCTAATGGTGAAA  
TGTTTACAAAGCAACCATTGATTAGAAGTATGCGAACTGTAAAAAGGGAACTTTAAAGTTAATATCTGGTTGGG  
TGAGCCGATCCAATGATCCACAGATGGTGCCTGAAAATTTTGTTCCTCTGTTGGATGCAGTTCTCATTGATT  
ATCAGAGAAATGTCCAGCTGCTAGAGAACCAGAAGTGCTTAGTACTATGGCCATAATTGTCAACAAGTTAGGGG  
GACATATAACAGCTGAAATACCTCAAATATTTGATGCTGTTTTTGAATGCACATTGAATATGATAAATAAGGACT  
TTGAAGAATATCCTGAACATAGAACGAACCTTTTCTTACTACTTCAGGCTGTCAATTCTCATTGTTTCCCAGCAT  
TCCTTGCTATTCCACCTACACAGTTTAAACTTGTTTTGGATTCCATCATTGCGGCTTTCAAACATACTATGAGGA  
ATGTCGCAGATACGGGCTTACAGATACTTTTTACACTCTTACAAAATGTTGCACAAGAAGAAGCTGCAGCTCAGA  
GTTTTTATCAAACCTTATTTTTGTGATATTCTCCAGCATATCTTTCTGTTGTGACAGACACTTCACATACTGCTG  
GTTTAAACAATGCATGCATCAATTCTTGATATATGTTTAATTTGGTTGAAGAAGGAAAAATAAGTACATCATTA  
ATCCTGGAAAATCCAGTTAAACAACCAATCTTTCTTCAGGAATATGTGGCTAATCTCCTTAAGTCGGCCTTCCCTC  
ACCTACAAGATGCTCAAGTAAAGCTCTTTGTGACAGGGCTTTTCAGCTTAAATCAAGATATTCCTGCTTTCAAGG  
AACATTTAAGAGATTTCTAGTTCAAATAAAGGAATTTGCAGGTGAAGACACTTCTGATTTGTTTTTGGAAAGAGA  
GAGAAAATAGCCCTACGGCAGGCTGATGAAGAGAAACATAAACGTCAAATGTCTGTCCCTGGCATCTTTAATCCAC  
ATGAGATTCCAGAAGAAATGTGTGATTAAATCCAAATTCATGCTGTTTTTTTTCTCTGCAACTCCGTTAGCAGA  
GGAAAACAGCATGTGGGTATTTGTGACCAAAAATGATGCCAATTTGTAAATTAATATGTCACCTAGTGGCCCTTT  
TTCTTATGTGTTTTTTGTATAAGAAATTTTCTGTGAAATATCCTTCCATTGTTTAAGCTTTTGTGTTTGGTCATC  
TTTATTTAGTTTGCATGAAGTTGAAAATTAAGGCATTTTAAAAATTTTACTTCATGCCCATTTTTGTGGCTGGG  
CTGGGGGGAGGAGGCAAATTTGAACATATACTTGTAATTTAATGCAAAATTATACAATTTTTCTCTGTAA

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**FIGURE 761B**

ACAATACCAATTTTTAATTAGGGAGCATTTTCCTTCTAGTCTATTTTCAGCCTAGAAGAAAAGATAATGAGTAAAA  
CAAATTGCGTTGTTTAAAGGATTATAGTGCTGCATTGTCTGAAGTTAGCACCTCTTGGACTGAATCGTTTGTCTA  
GACTACATGTATTACAAAGTCTCTTTGGCAAGATTGCAGCAAGATCATGTGCATATCATCCCATTGTAAAGCGAC  
TTCAAAAATATGGGAACACAGTTAGTTATTTTTACACAGTTCTTTTTGTTTTTGTGTGTGTGTGCTGTCGCTTGT  
CGACAACAGCTTTTTGTTTTCTCAATGAGGAGTGTGCTCATTGTGAGCCTTCATTAACCTCGAAGTGAAATGG  
TTAAAAATATTTATCCTGTTAGAATAGGCTGCATCTTTTAACAACCTATTAAAAAACAAACAACTCTGGCTTT  
TGAGATGACTTATACTAATTTACATTGTTTACCAAGCTGTAGTGCTTTAAGAACACTACTTAAAAAGCAAATAA  
ACTTGGTTTACATTTAAAAAAA

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**FIGURE 762**

MPAINTMLADHAARQLLDIFSQKLDINLLDNVNVNCLYHGEGAQQORMAQEVLTHLKEHPDAWTRVDTILEFSQNMNT  
KYYGLQILENVIKTRWKILPRNQCEGIKKYVVGLIIKTSSDPTCVEKEKVYIGKLNMIQILKQEWPKHWPTFI  
SDIVGASRTSESLCQNNMILKLLSEEVDFDFSSGQITQVKS KHLKDSMCNEFSQIFQLCQFVMENSQNAPLVHAT  
LETLLRFLNWIPGLGYIFETKLISTLIYKFLNVPMFRNVSLKCLTEIAGVSVSQYEEQFVTLFTLTMMQLKQMLPL  
NTNIRLAYSNGKDDEQNFIQNLSLFLCTFLKEHDQLIEKRLNLRETLMEALHYMLLVSEVEETEIFKICLEYWNH  
LAAELYRESPFSTSASPLLSGSQHFDVPPRRQLYLPLMLFKVRLLMVSRMAKPEEVLVVENDQGEVVREFMKDTS  
INLYKNMRETLVYLTHLDYVDTERIMTEKLNQVNGTEWSWKNLNTLCWAIGSISGAMHEEDEKRFVTVIKDLL  
GLCEQKRGKDNKAI IASNIMYIVGQYPRFLRAHWKFLKTVVNKLFEFMHETHDGVQDMACDTFIKIAQKCRHFV  
QVQVGEVMPFIDEILNNINTIICDLQPQQVHTFYEAVGYMIGAQTQTVQEHLEKYMLLPNQVWDSIIQQATKN  
VDILKDPETVKQLGSILKTNVRACKAVGHFPFVIQLGRIYLDMLNVYKCLSENISAAIQANGEMVTKQPLIRSMRT  
VKRETLKLISGWVSRSDPQMVAENFVPPLLDAVLIDYQRNVPAAREPEVLSTMAIIVNKLGGHITAEIPQIFDA  
VFECTLMINKDFEETPEHRTNFFLLQAVNSHCFFAFLAIPPTQFKLVLDSEIWFVKHTMRNVADTGLQILFTL  
LQNVAQEEAAAQSFYQTYFCDILQHIFSVVTDTSHTAGLTMHASILAYMFNLVEEGKISTSLNPGNPNVNNQIFLQ  
EYVANLLKSAPPHLQDAQVKLFVTGLFSLNQDIPAFKEHLRDFLVQIKEFAGEDTSDLFLEEREIALRQADEEKH  
KRQMSVPGIFNPHEIPEEMCD

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**FIGURE 763**

GGCGGCGGCAGCAGCTGCTTGGGCGCCGTGCGGTGGTGA CTGAGCTACGAGCCTGGCAGCAGGTGTGCGCCGAGC  
CCCGGCCTGGCCCGGCCCGCGTGCCTCCCAGGCTCCGCACCCCTGATGCTGCGCGGGTGCTGAGCCCACTTCG  
GCCAGGACGATGGTTAAGTATTTCTGGGCCAGAGCGTGCTCCGGAGTTCCTGGGACCAAGTGTTGCGCGCCTTC  
TGGCAGCGGTACCCGAATCCCTATAGCAAACATGTCTTGACGGAAGACATAGTACACCGGGAGGTGACCCCTGAC  
CAGAAACTGCTGTCCCGGCGACTCCTGACCAAGACCAACAGAATGCCACGCTGGGCCAAGCAACTATTTCTGCC  
AATGTTGCTCACTCGGTGTACATCCTGGAGGACTCTATTGTGGACCCACAGAATCAGACCATGACTACCTTCACC  
TGGAACATCAACCACGCCCCGGCTGATGGTGGTGGAGGAACGATGTGTTTACTGTGTGAACTCTGACAACAGCGGC  
TGGACTGAAATCCGCCGGGAAGCCTGGGTCTCCTCTAGCTTATTTGGTGTCTCCAGAGCTGTCCAGGAATTTGGT  
CTTGCCCAGTTCAAAAGCAACGTGACCAAGACTATGAAGGGTTTTGAATATATCTTGACTAAGCTGCAAGGCGAG  
GCCCCTTCCAAAACACTTGAGACAGCCAAGGAAGCCAAGGAGAAGGCAGAGGAGACGGCACTGGCAGCTACAGAG  
AAGGCCAAGGACCTCGCCAGCAAGGCGGCCACCAAGAAGCAGCAGCAGCAGCAACAGTTTGTGTAGCCAGCCCAC  
CACCACCACAGCAACCCAGACAGCTAGGCTTAGCCCCCTCTGCCCTCCCTCCATTGTACTTTATCATTAAAAATCA  
ACTTCCA

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**FIGURE 764**

CTGACTCTCTGAGGCTCATTTCGAGTTGTTGAAATTGTCCCCGAGTTTTCAATCATGTCTGAACCAATCAGAG  
TCCTTGTGACTGGAGCAGCTGGTCAAATTGCATATTCAGTGTACAGTATTGGAAATGGATCTGTCTTTGGTA  
AAGATCAGCCTATAATTCTTGTGCTGTTGGATATCACCCCATGATGGGTGTCCTGGACGGTGTCTAATGGAAC  
TGCAAGACTGTGCCCTTCCCTCCTGAAAGATGTCATCGCAACAGATAAAGAAGACGTTGCCCTCAAAGACCTGG  
ATGTGGCCATTCTTGTGGGCTCCATGCCAAGAAGGGAAGGCATGGAGAGAAAAGATTTACTGAAAGCAAATGTGA  
AAATCTTCAAATCCCAGGGTGCAGCCTTAGATAAAATACGCCAAGAAGTCAGTTAAGGTTATTGTTGTGGGTAATC  
CAGCCAATACCAACTGCCTGACTGCTTCCAAGTCAGCTCCATCCATCCCCAAGGAGAACTTCAGTTGCTTGACTC  
GTTTGGATCACAACCGAGCTAAAGCTCAAATTGCTCTTAAACTTGGTGTGACTGCTAATGATGTAAAGAATGTCA  
TTATCTGGGGAAACCATTCCTCGACTCAGTATCCAGATGTCAACCATGCCAAGGTGAAATTGCAAGGAAAGGAAG  
TTGGTGTATGAAGCTCTGAAAGATGACAGCTGGCTCAAGGGAGAATTTGTCACGACTGTGCAGCAGCGTGGCG  
CTGCTGTCAATCAAGGCTCGAAAACCTATCCAGTGCCATGTCTGCTGCAAAAGCCATCTGTGACCACGTCAGGGACA  
TCTGGTTTGGAAACCCAGAGGGAGAGTTTGTGTCCATGGGTGTTATCTCTGATGGCAACTCCTATGGTGTTCCTG  
ATGATCTGCTCTACTCATTCCCTGTTGTAATCAAGAATAAGACCTGGAAGTTTGTGGAAGGTCTCCCTATTAATG  
ATTTCTCACGTGAGAAGATGGATCTTACTGCAAAGGAAGTACAGAAGAAAAAGAAAGTGCTTTTGAATTTCTTT  
CCTCTGCCCTGACTAGACAATGATGTTACTAAATGCTTCAAAGCTGAAGAATCTAAATGTCGTCTTGACTCAAGT  
ACCAAATAATAATAATGCTATACTTAAATTACTTGTGAAAAACAACACATTTTAAAGATTACGTGCTTCTTGGA  
CAGGTTTGTGAATGACAGTTTATCGTCATGCTGTTAGTGTGCATTCTAAATAAATATATATTCAAATG

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**FIGURE 765**

MSEPIRVLVTGAAGQIAYSLLYSIGNGSVFGKDQPIILVLLDITPMMGVLDGVLMEIQDCALPLLKDVIATDKED  
VAFKDL DVAILVGSMPPREGMERKDLLKANVKIFKSQGAALDKYAKKSVKVI VVGNPANTNCLTASKSAPSIPKE  
NFSCLTRLDHNRKAQIALKLGV TANDVKNV I I WGNHSSTQYPDVNHAKVKLQGKEVGVYEALKDDSWLKGEFVT  
TVQQRGA AVIKARKLSSAMSAAKAICDHVRDIWFGTPEGEFVSMGVISDGNSYGV PDDLLYSFPVVIKNKTWK FV  
EGLPINDFSREKMDLTAKELTEEKESAFEFLSSA

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**FIGURE 766**

TCTTTTAAGTATACTCTCTACTTATTAAAAAAGTCCTTTCCACGCTACCTGCAGAGGGGTCCATACG  
GCGTTGTTCTGGATTCCCATCGTAACTTAAAGGGAACTTTCACAATGTCCGGAGCCCTTGATGTCCTGCAAATG  
AAGGAGGAGGATGTCCTTAAGTTCCTTGACGAGGAACCTCACTTAGGTGGCACCATCTTGACTTCCAGATGGAA  
CAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAATCTGAAGAGGACCTGGGAGAAGCTTCTGCTG  
GCAGCTCGTGCTATTGTTGCCATTGAAAACCTGCTGATGTCAGTGTTATATCCTCCAGGAATACTGGCCAGAGG  
GCCGTGCTAAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGCTGGCCGCTTCACTCCTGGAACCTTCGCTAAC  
CAGATCCAGGCAGCCTTCCGGGAGCCACGGCTTCTTGTTGTTACTGACCCAGGGCTGACCACCAGCCTCTCATG  
GAGGCATCTTATGTTAACCTACCTACCATTGCGCTGTGTAACACAGATTCTCCTCTGCACTATGTGGACATTGCC  
ATCCCATGCAACAACAAGGGAGCTCACTCAGTGGGTTTGATGTGGTGGATGCTGGCTCGGGAAGTTCTGCGCATG  
CGTGGCACCATTTCCTGTGAACACCCATGGGAGGTCATGCCTGATCTGTACTTCTACAGAGATCCTGAAGAGATT  
GAAAGAGAAGAGCAGGCTGCTGCTGAAAAGGCAGTGACCAAGGAGGAATTCAGGGTGAATGGACTGCTCCAGCT  
CCTGAGTTCAGTGTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGTGTACAGGTGCCCTCTGTGCCATTATCCC  
TACTGAAGACGGGAGCGCTCAGCCTGCCACGGAAGACTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGT  
AGGAGCAACCACTGACTGGTCTTAAGCTGTTCTTGTCATAGGCTCTTAAGCAACATGGAAAAATGGTTGATGGAAA  
ATAAACATCAGTTTCT

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**FIGURE 767**

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIVAIENPADVS  
VISSRNTGQRAVLKFAAATGATPIAGRFTPGTFANQIQAAFREPRLLVVDPRADHQPLMEASYVNLPTIALCNT  
DSPLHYVDIAIPCNNKGAHSVGLMWWMLAREVLRMRGTISCEHPWEVMPDLYFYRDPEEIEREEQAAAEKAVTKE  
EFQGEWTAPAPEFTVTQPEVADWSEGVQVPSVIPY



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**FIGURE 768**

GCAGAGGGGTCCATACGGCGTTGTTCTGGATTCCCATCGTAACTTAAAGGGAACTTTACAAATGTCGGGAGCCC  
TTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACACTCACTTAGGTGGCACCAATC  
TTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAATCTGAAGAGGACCT  
GGGAGAAGCTTCTGGCCGCTTCACTCCTGGAACCTTCGCTAACCAGATCCAGGCAGCCTTCCGGGAGCCACGGCT  
TCTTGTGGTTACTGACCCAGGGCTGACCACCAGCCTCTCATGGAGGCATCTTATGTTAACCTACCTACCATTGC  
GCTGTGTAACACAGATTCTCCTCTGCACTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGT  
GGGTTTGATGTGGTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCCTGTGAACACCCATGGGA  
GGTCATGCCTGATCTGTACTTCTACAGAGATCCTGAAGAGATTGAAAGAGAAGAGCAGGCTGCTGCTGAAAAGGC  
AGTGACCAAGGAGGAATTCAGGGTGAATGGACTGCTCCAGCTCCTGAGTTCCTGTTACTCAGCCTGAGGTTGC  
AGACTGGTCTGAAGGTGTACAGGTGCCCTCTGTGC

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**FIGURE 769**

MSGALDVLQMKEEDVLKFLAAGTHLGSTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLASLLEPSLTRSRQPSG  
SHGFLWLLIPGLTTSLSORHLKLTYLPLLCVTQILLCAMWTLPSHATARELTQWV

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**FIGURE 770**

GGCCCAGCTGCTGAGAGGAGTTGCCTGAGAGTGACCTTTGCATCTGCCTGTCCAGCCAGCATGGAACCAAAGCGG  
ATCAGAGAGGGCTACCTTGTGAAGAAGGGGAGCGTGTTCAATACGTGGAAACCCATGTGGGTTGTATTGTTAGAA  
GATGGAATTGAATTCTATAAGAAGAAAAGTGACAACAGCCCCAAAGGAATGATCCCGCTGAAAGGGAGCACTCTG  
ACTAGCCCTTGTCAAGACTTTGGCAAAAGGATGTTTGTGTTTAAGATCACTACGACCAAACAGCAGGACCCTTC  
TTCCAGGCAGCCTTCCTGGAGGAGAGAGATGCCTGGGTTTCGGGATATCAAGAAGGCCATTAAATGCATTGAAGGA  
GGCCAGAAATTTGCCAGGAAATCTACCAGGAGGTCCATTGCGACTGCCAGAAACCATTTGACTTAGGTGCCTTATAT  
TTGTCCATGAAAGACACTGAAAAAGGAATAAAGAAGTGAATCTAGAGAAGGACAAGAAGATTTTTAATCACTGC  
TTCACAGGTAACTGCGTCATTGATTGGCTGGTATCCAACCAGTCTGTTAGGAATCGCCAGGAAGGCCTCATGATT  
GCTTCATCGCTGCTCAATGAGGGGTATCTGCAGCCTGCTGGAGACATGTCCAAGAGTGCAGTGGATGGAAGTGCCT  
GAAAACCCCTTTCCTGGACAACCCTGATGCCTTCTACTACTTTCCAGACAGTGGGTTCTTCTGTGAAGAGAATTCC  
AGTGATGATGATGTGATTCTGAAAGAAGAATTGAGAGGGGTCATTATCAAGCAGGGATGTTTACTGAAGCAGGGG  
CATAGAAGGAAAAACTGGAAAGTGAGGAAGTTTCATCTTGAGAGAAGACCCTGCCTACCTGCACTACTATGACCCT  
GCTGGGGCAGAAAGATCCCCCTGGGAGCAATTCATTGAGAGGCTGTGTGGTGACTTCAGTGGAGAGCAACTCAAT  
GGCAGGAAGAGTGAGGAAGAGAACCTTTTTGAGATCATCACAGCAGATGAAGTGCCTATTTCTTGCAAGCAGCC  
ACCCCCAAGGAGCGCACAGAGTGGATCAGAGCCATCCAGATGGCCTCCCGAAGTGGGAAGTAAAGAGACTCCTGC  
ATTCTCTCTCCCCCTCCTGAGGGAAGCCCATGGACAAGCTCAGTCCAGGACCTGTCCACTTCTGTGACAAATCAAC  
GGGAAACAGCCCAGGGGTGGGAAGTTTTTCATTTGCAGGGGGGTCTGAATGTAAGTCAACCATGTGGTGTGCAAGGT  
TCCCCTGCATTGTATTGCTCACTGCAGCCCTCTGCCCTATCCATGACCCCCAAGCAGATATAACAAGCTGTGC  
AGCCTCAGTAGGCTGCTTGCCTCTCCAGGCCTCAGGGCCTCTTCTGGAAAATGAAGAAATCAACTAGTAGATT  
CCTGAGGTCCCCCTAGCTTAAAAAATAAATACTGCCCATGATTCTAACACTCGCAGTAGTGATAGTGATC  
TAGTTGTTCTGTGTTGCTCTTCTTGGCTAAGTCTTGGCCTTCAGTTATCTTCAAATGTACCAGAACCTGAGCC  
AACGCCTCCCTGTGAACTGTTGCTGATCTGTAGTACAGTACCAGGAAGAAACCTCTTTTGTCTCTTTAGACAT  
CTTCTACTTGCTCTTGGCCTTGAGATCGTGTAAACAAAATGAAGGAGGGCTCTCTTCTTCTCTCATCTACTC  
AAAAACTTCCCGAGAGCAGTGGTGGTTTTGAGGGTTTTGACTTCTATTACTTTTGGCAGCCTGGAAAGTTGTGTC  
TTCTGGGAAAGAGACCTGGGGAGGCCAGGAGTAGCTGAGGGTCTTTCTGTGCCCTTAAACCGCCCAGAGGAGCC  
CTATTCCACTCTGGTTTTAGGCTGATCTGAGAGGGTCTCCCTTTGTTCTTTCTGGAGCATTCTCTAACGTTTA  
TTACAATTAGGAGGGGGACCCACATCTGTGAGATTCTGTTTCATTTGAGGTTTACAGAAAAAAGTGGCCA  
GATGTGTTCCCCCATGGGTGAGAGGCCTGGGCAACTGCCTGGTGAATGTGTCTTGCGGCAGCTGCAGCAAGTGG  
AGGGGCTGAACTACTGGCCAGCTCACTGGATGATGGGTAAATACAACAAGTGCCTGTAAGGACTCAGAGCCACA  
CAGAACTTCTGAGAGGGGCTGTTAGCATTGCGCAGCATCTTCAGTTCTCCAGTAAATGATATTGCGTTCTGTCCT  
CAGCTTTAAGCACAAAGTAGCAGCAGCTCCTGCTTGAAGTCTGAGGGCATCATGGCCCTATGATTAACCAGAGTGA  
TCTAACCTAGACTAAAAATTGGGAACTTATTTGCAATTTTTGACCCTGACCACTAAGTAGTGATTCTTCTCCAAA  
TTGAGAAAGACAGCACCCATTGAAGCAGATATGTGTGTGAAAGTATATTTTCAATTCCAGATTTTTAATTTTAA  
GGCTCCAGGAAAAGAAAGGAGAGTAGAACATTTTTCTCATTTTTATCAAATCCTCTCTTGGCCTCCCTCAATTCCC  
CTGTAACATTCTGAAAGCTGTTCCCACTCCCAGATGGTTTTATCAATAGCCTAGAGGTAAAGAACTGTCTTTTTC  
TCTGATTCTTTAATAAATTATCTTTATAGAATATGCACAAGTTTTCTACACTCAGTGTTAAAGTATTTATTAAT  
GGGAAGTCAACTTAATGTTTTGAAATAAATATATGACTCTGTTTAAT

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**FIGURE 771**

CTTTCGGGAGACTGGAGTCGAAGGCCGTGAGGTATTTTCTAAGXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
XXXXXXXXXXAACCCCGGAGGAGGGTGAGGAGCAGAGCTGGCCATAATGGCAGGTGAAGAAATTAATGAAGACTAT  
CCAGTAGAAATTCACGAGTATTTGTCAGCGTTTGAGAATTCCATTGGTGCTGTGGATGAGATGCTGAAGACCATG  
ATGTCTGTTTCTAGAAATGAGTTGTTGCAGAAGTTGGATCCACTTGAACAAGCAAAAGTGGATTTGGTTTCTGCA  
TACACATTAAATTCAATGTTTGGGTTTATTTGGCAACCCAAGGAGTTAATCCTAAGGAACATCCAGTAAACAG  
GAATTGGAAAGAATCAGAGTATATATGAACAGAGTCAAGGAAATAACAGACAAGAAAAAGGCTGGCAAGCTGGAC  
AGAGGTGCAGCTTCAAGATTTGTAAAAAATGCCCTCTGGGAACCAAAATCGAAAAATGCATCAAAAGTTGCCAAT  
AAAGGAAAAAGTAAAAGTTAACTTTTTGGTTTTGATGTACACATATTCAAAAAGTACATTAATATGTAAATTCAC  
AGTAAATATGTAAAGCTAAATACTTTCCTCTCCAAAGATCATTATCTTTATTGATTAGCACTGAGGATTTTAACA  
TTGTGATATATTATATATTTATAATTTACCATCTCTTGATGAGACTCTTATTTCTTTATATAGGTCAGTCTTGCA  
AGTACCATTTTATAAGCAGCTGTGAAATTTAAGTGAAATGTTCTTTGTAAACATTTGTACTATTTTAAATGAATA  
ATGACCTTATGAAGTATGCTATCTGTAGGCTGAAATTATAGGTACATCTGTTTTCACTATATGATATTAAGAAAG  
CGTGAAATGACTTAAATGTTTCAATTTTTTCTGTATAGATACTTTATCATGTTTTCATGATTTTAGGAATTACTGC  
TTTGTGATATTCAAAGTGTGAACTAAACTTTATGGTTGTACTTTAATTCTTGGCATGTTGCCCTCTATGTCCC  
ATTTAAATAAAATACATTCTCATTAACCTTTAGATGGGAAATAAGGTTGTATGTTGATGGATGAATTTTGGCATG  
ATGACTGTACTCTCAATAAAGGCTGAAAAATGTTGT

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**FIGURE 772**

CCTTCACTTCGCCCTCCAGCTGCTGCAGCTGCAGCCCCGACCGCGAGCGTGCCAAGCGGCTTCAGCAGCTAGCGGA  
GCGGTGGCGGCGGCCCGCTCAGGAGACCACCAGATTCCCCCTCTCCCGCGGCCTCGCCATGGCGACCCACGGAC  
AGACTTGCGCGCGTCCAATGTGTATTCTCCATCATATGCTGACCTTGGCAAAGCTGCCAGAGATATTTTCAACA  
AAGGATTTGGTTTTGGGTTGGTGAAACTGGATGTGAAAACAAAGTCTTGCAAGTGGCGTGGAATTTTCAACGTCCG  
GTTTCATCTAATACAGACACTGGTAAAGTTACTGGGACCCCTGGAGACCAAATACAAGTGGTGTGAGTATGGTCTGA  
CTTTCACAGAAAAGTGAACACTGATAACACTCTGGGAACAGAAATCGCAATTGAAGACCAGATTTGTCAAGGTT  
TGAAACTGACATTTGATACTACCTTCTACCAAATCAAAGCTGACAAGGAATAACTTTGCAGTGGGCTACAGGAC  
TGGGGACTTCCAGCTACACACTAATGTCAATGATGGGACAGAATTTGGAGGATCAATTTATCAGAAAGTTTGTGA  
AGATCTTGACACTTCAGTAAACCTTGCTTGGACATCAGGTACCAACTGCACTCGTTTTGGCATTGCAGCTAAATA  
TCAGTTGGATCCCCTGCTTCCATTTCTGCAAAAGTCAACAACCTCTAGCTTAATTGGAGTAGGCTATACTCAGAC  
TC

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**FIGURE 773**

AGCTGCTGCAGCTGCAGCCGACCGCGAGCGTGCCAAGCGGCTTCAGCAGCTAGCGGAGCGGTGGCGGCGGCCCC  
GCTCAGGAGACCACCAGATTCCCCTCTTCCCGCGGCCTCGCCATGGCGACCCACGGACAGACTTGCGCGCGTCCA  
ATGTGTATTCCCTCCATCATATGCTGACCTTGGCAAAGCTGCCAGAGATATTTTCAACAAAGGATTTGGTTTTGGG  
TTGGTGAAACTGGATGTGAAAACAAAGTCTTGCAGTGGCGTGGAATTTTCAACGTCCGGTTCATCTAATACAGAC  
ACTGGTAAAGTTACTGGGACCCTGGAGACCAAATACAAGTGGTGTGAGTATGGTCTGACTTTACAGAAAAGTGG  
AACACTGATAAAGTCTGGGAACAGAAATCGCAATTGAAGACCAGATTTGTCAAGGTTTGAAACTGACATTTGAT  
ACTACCTTCTCACCAAACACAGGAAAGAAAAGTGGTAAAATCAAGTCTTACAAGAGGGAGTGATAAACCTTGGT  
TGTGATGTTGACTTTGATTTTGCTGGACCTGCAATCCATGGTTCAGCTGTCTTTGGTTATGAGGGCTGGCTTGCT  
GGCTACCAGATGACCTTTGACAGTGCCAAATCAAAGCTGACAAGGAATAACTTTGCAGTGGGCTACAGGACTGGG  
GACTTCCAGCTACACACTAATGTCAATGATGGGACAGAATTTGGAGGATCAATTTATCAGAAAGTTTGTGAAGAT  
CTTGACACTTCAGTAAACCTTGCTTGGACATCAGGTACCAACTGCACTCGTTTTGGCATTGCAGCTAAATATCAG  
TTGGATCCCCTGCTTCCATTTCTGCAAAAGTCAACAACCTCTAGCTTAATTGGAGTAGGCTATACTCAGACTCTG  
AGGCCTGGTGTGAAGCTTACACTCTCTGCTCTGGTAGACGGGAAGAGCATTAAATGCTGGAGGCCACAAGGTTGGG  
CTCGCCCTGGAGTTGGAGGCTTAATCCAGCTGAAAGAAAACCTTTGGGAATGGATATCAGAAGATTTGGCCTTAAT  
ATATTTCCATTGTGACCAGCAGCAGGCTTTTTTCCCCCAAGAAGATGATCAAAACAAAGGATGATCTCAACAAGA  
GCTGTATTTTAAGTATTTAGACAGTTCTTTGTTAGCTGGTTTCTAGTTGAATTGGTTATCTAGTTACCAATGCTG  
CAGTCCTGCAGTCACCTATACATTATTTAAATGTATTTAACTGTTAAATGCGCTACCCACCAATAATGAAATAGA  
CCTTTATGAAAA

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**FIGURE 774**

MATHGQTCARPMCIPPSYADLGKAARDIFNKGFGFGLVKLDVTKSCSGVEFSTSGSSNTDTGKVTGTLETYKW  
CEYGLTFTEKWNTDNTLGTEIAIEDQICQGLKLTFDTTFSPNTGKKSGKIKSYKRECINLGCDVDFDFAGPAIHG  
SAVFGYEGWLAGYQMTFDSAKSKLTRNNFAVG YRTGDFQLHTNVNDGTEFGGSIYQKVCEDLDTSVNLAWTSGTN  
CTREGIAAKYQLDPTASISAKVNNSLIGVGYTQTLRPGVKLTLSALVDGKSINAGGHKVGLALELEA

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**FIGURE 775**

ATGGTCTGACTTTTCACAGAAAAGTGGAACACTGATAACACTCTGGGAACAGAAATCGCAATTGAAGACCAGATTT  
GTCAAGGTTTGAAACTGACATTTGATACTACCTTCTCACCAAACACAGGAAAGAAAAGTGGTAAAATCAAGTCTT  
ACAAGAGGGAGTGATAAACCTTGGTTGTGATGTTGACTTTGATTTTGCTGGACCTGCAATCCATGGTTCAGCTG  
TCTTTGGTTATGAGGGCTGGCTTGCTGGCTACCAGATGACCTTTGACAGTGCCAAATCAAAGCTGACAAGGAATA  
ACTTTGCAGTGGGCTACAGGACTGGGGACTTCCAGCTACACACTAATGTCAATGATGGGACAGAATTTGGAGGAT  
CAATTTATCAGAAAGTTTGTGAAGATCTTGACACTTCAGTAAACCTTGCTTGGACATCAGGTACCAACTGCACTC  
GTTTTGGCATTGCAGCTAAATATCAGTTGGATCCCCTGCTTCCATTTCTGCTGGTGTGAAGCTTACACTCTCTG  
CTCTGGTAGACGGGAAGAGCATTAAATGCTGGAGGCCACAAGGTTGGGCTCGCCCTGGAGTTGGAGGCTTAATCCA  
GCTGAAAGAAACCTT



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**FIGURE 776**

GAGAAAACGGCCGGGCGGCGGTGGCTGTAGGTTGTGCGGCTGCAGCGGCTCTTCCCTGGGCGGACGATGGACAGC  
CAGGGCAGGAAGGTGGTGGTGTGCGACAACGGCACCAGGTTTGTGAAGTGTGGATATGCAGGCTCTAACTTTCCA  
GAACACATCTTCCCAGCTTTGGTTGGAAGACCTATTATCAGATCAACCACCAAAGTGGGAAACATTGAAATCAAG  
GATCTTATGGTTGGTGTATGAGGCAAGTGAATTACGATCAATGTTAGAAGTTAACTACCCTATGGAAAATGGCATA  
GTACGAAATTGGGATGACATGAAACACCTGTGGGACTACACATTTGGACCAGAGAACTTAATATAGATACCAGA  
AATTGTAAAATCTTACTCACAGAACCTCCTATGAACCCAACCAAAAACAGAGAGAAGATTGTAGAGGTAATGTTT  
GAACTTACCAGTTTTCCGGTGTATATGTAGCCATCCAGGCAGTTCTGACTTTGTACGCTCAAGGTTTATTGACT  
GGTGTAGTGGTAGACTCTGGAGATGGTGTGACTCACATTTGCCAGTATATGAAGGCTTTTCTCTCCCTCATCTT  
ACCAGGAGACTGGATATTGCTGGGAGGGATATACTAGATATCTTATCAAGCTACTTCTGTTGCGAGGATACGCC  
TTCAACCACTCTGCTGATTTTGAACCGTTTCGCATGATTAAAGAAAACTGTGTTACGTGGGATATAATATTGAG  
CAAGAGCAGAACTGGCCTTAGAAACACAGTATTAGTTGAATCTTATACACTCCCAGATGGACGTATCATCAA  
GTTGGGGGAGAGAGATTTGAAGCACCAGAAGCTTTATTTACGCCTCACTTGATCAATGTTGAAGGAGTTGGTGT  
GCTGAATTGCTTTTTAACACAATTCAGGCAGCTGACATTGATACCAGATCTGAATTCTACAAACACATTGTGCTT  
TCTGGAGGTCTACTATGTATCTTGGCCTGCCATCACGGTTGGAACGAGAAGCTTAAACAGCTTTACTTAGAACGA  
GTTTTGAAGGTGATGTGAAAAAATTTCTAAATTTAAGATCCGCATTGAAGACCCACCCCGCAGAAAGCACATG  
GTATTCCTGGGTGGTGCAGTTCTAGCGGATATCATGAAAGACAAAGACAATTTTGGATGACCCGACAAGAGTAC  
CAAGAAAAGGTGTCCGTGTGCTAGAGAACTTGGTGTGACTGTTTCGATAAACTCCAAAGCTTGTTCCTGCATA  
CCCGTAATGCTTTCTTTTTCTTTTATTGCCAATCTTTGAACTCATTCAACTCCAGGACATGGAAGAGGCCTCTC  
TCTGCCCTTTGACTGGAAAGGTCAAGTTTTATTCTGGTGTCTTGGGGAAGCTTTGTTAAATTTTTGTTAATGTGG  
GTAAATCTGAGTTTAATTCAACTGCTTCCCTACATAGACTAGAGGGCTAAGGATTCTGTCTGCTGCTTTGTTTCT  
TCTAAGTAGGCATTTAGATCATTCTATAGGCTTCCCTATTTTCACTTTACTGCTCTAATGCTGCTAGTCGTAGTC  
TTTAGCACACTAGGTGGTATGCCTTTATTAGCATAAAAAACAAAAAACTTTAACAGGAGCTTTTACATATTACTG  
GGATGGGGGGTGGTTCGGGATGGGTGGGCAGCTGCTGAACCCCTTTAGGGCATTTCCTCTGTAATGTGGCGCTTTC  
AACTGTACTGCTGCAGCTTTAAGTACCTTAAAGCTTCTCCTGTGAACCTTCTTAGGGAAATGTTAGGTTCAGAACT  
AAAGTGTTTTGGGTGGGTTTTGTTGCGGGGGGAGGGTAACAAATGGGTGGTCTTCTGATTTTTATTTTGGAGTT  
TTGTCAACTGGAGTACGTAGAGGAACCTTTATTTACAGTACTTTGATTTGGCAGGTTTTCTTCTACTTGTGCTCTG  
CCTGGAGCTGTTTCCATATGATATAAAAAGCAAGTGTAGTATTCCATTACTATGTGGCTTAGGGATTTATTTGTT  
TTTTAAATCAACCATGTTAGCTGGGATTAGACTCCCTACAGTCCTTCAATGGAAAAGTAACATTTAAAAATCCT  
TTGGGTAATTGCAATTACAGATTTAAAAGAGCTTAAGATCTGGTGTGTTTTGTTAATGCTTCTGTTTATTCCAGAAG  
CATTAAGGTAACCCATTGCCAAGTATCATTCTTGCAAATTATCTTTTATATAACTGACCAGTGCTTAATAAAAC  
AAGCAGGTACTTACAAATAATTACTGGCAGTAGGTTATAATTGGTGGTTTAAAAATAACATTGGAATACAGGACT  
TGTTGCCAATTGGGTAATTTTCATTAGTTGTTTTGTTTGTGTTTGAATTGAAACCTGGAAATACAGTAAATTTGA  
CTGTTTAAATGTTGGCCAAAAAATCAAGATTTAATTTTTTATTGTACTGAAAACTAATCATAACTGTTAA  
TTCTCAGCCATCTTTGAAGCTTGAAAGAAGAGTCTTTGGTATTTGTAAACGTTAGCAGACTTTCCTGCCAGTGT  
CAGAAAATCCTATTTATGAATCCTGTGCGTATTCCTTGGTATCTGAAAAAATACCAAATAGTACCATACATGAG  
TTATTTCTAAGTTTGAAAAATAAAAAGAAATTGCATCACACTAATTACAAAATA

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**FIGURE 777**

ATGGAGACACTTGTACAAGTGAATCTCTTTAGAAAGAGAGATTTACGCCAGGTACGTGGAACACAGTCTGAGCAG  
CACTGCACACCGTATCAAATCAGGTATCCTGTAGGAAGAGTACCTGGGGATGAAATCAACAAGTTCTTAGTGGA  
TCTTCTCATTTCTTAGAATGTAATGTGGTTGGATGTTTGAAATTGGTACGAAAGGGGAGAATCCTTTCCCCAA  
TTAGGAAAATGGGGAGTGGGGGCAGAGGAAATGAAGCCCAGGTTCTTCATCGGATGGAAGTTCTCTGGTCAGTGT  
ACACAGTTTGCTCTTGAGAGGACTGATGGCCTGGGATATGTTATTGATGGTCCTGAAAGGGATCTGCGTTTGAAT  
AGGTCAGAGAAGATGTTCTGGAAGTCTGGAGACTGGGATACGCTCCCTTCCCTACAGGCTCATTCATCCAGCGTT  
CTGGCAGTACCCCTCTGGTACCGCACAGACTTCAGGGGACCTTGAACAAGCTCCATTTTGTCTCCTGGAAGCTCAT  
TCCACCAGGTTTGGATATGAGCTTACCACCTGGCTCCACCTTCTCCACCAACTACCAGTCCCTGGGCTCTGTCCA  
GGTGCCCGCTAAGACGCTCGGCCAGTCAGCAGCATGACCAGTATCTCTGCAGGGGCTGGGGGCTCTGGTTCCCA  
GATCTCCATGTCCCCCTCCACCAGCTTCTGGGGTGGCATGGGGTCTGGGGCCCTGGCCGTGGGGATGGCCAGGGT  
TCTGGCAGGATGGAAGACATCCAGAACAAGAAGGAGACCATGCAAAGCCTGAATGACTGCCTGGCCTCCTACCTG  
GACAGAGTGAGGAGACTGGATACCAAGAATCGGAAGCTGGAGAGCAAAATCCGGGAGCACCTGGAGAAGAAGGGA  
CCCCAAGTCAGAGACTGGAGCCATTACTTCAAGACCGTGGAGGACCTGAGGGCTCAGATCTTCGCAAATACTGTG  
GACAATGCCCCGCATCGTTCTGCAAGTCGACAATGCCATCTTGCTGATGACTTTAGAGTCAAGTATGTGACAGAG  
CTGGCCATGCGCCAGTCTATGGAGAGCGACATCCATGGGCTCCGCAAGGTCATTGATGACACCAATGTCACTCGG  
CTGCAGCTGGAACAGAGATCGAGGCTCTCAAGGAGGAGCTGCTCTTCATGAAGAAGAACGAAGAAGGGGAAATA  
AAAGGCCTACAAGCCCAGATTGCCAGCTCTGGGTTGACTGTGGAGGTAGATATCCCCAAATCTCAGGACCTTGCC  
AAGCTCATGGCAGACATCTGGGCCCAATATGATGAGCTGGCTCGGAAGAGCCAAGAGGAGCTGGGCAAGTACTGG  
TCTCAGCAGATTGAGGAGAGTATCACAGTAGTCACCATGCAGTCCACCGAGATGGAGCAGTTCAACAGGATCCTG  
CTGCACCTGGAGTCAGAGCTGGCACAGACCTGGGCAGAGGGACAGTGCCAGGCCCAGGAGTACGAGGCCCTGCTG  
AGCATCAGGGTCAAGCTGGAGGCTGAGATCGCCACCTACCACCACCTGCTGGAAGATACCACCACCGGCCGGATA  
GTGGATGGCAAAGTGGGGTCTGAGACCAACAACACCAAAGTTCTGAGACATTAA

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**FIGURE 778**

METLVQVNLFRKRDLRQVRGTQSEQHCTPYQIRYPVGRVPGDEINKFLVESSHFLVCNVVGCLEIGTKGENPFPQ  
LGKWGVGAEMKPRFFIGWKFSGQCTQFALERTDGLGYVIDGPERDLRLNRSEKMFWKSGDWDTLPSLQAHSSSV  
LAVPSGTAQTSGDLEQAPFCLLEAHSTRFEYELHHSLLHQLPVPGLCPGAQLRRSASQQHDQYLCRGWGLWFP  
DLHVPLHQLLGWHGVWGPGRGDGQSGRMEDIQNKKETMQSLNDCLASYLDRVRLDTKNRKLESKIREHLEKKG  
PQVRDWSHYFKTVEDLRAQIFANTVDNARIVLQVDNAHLADDFRVKYVTELAMRQSMESDIHGLRKVIDDTNVTR  
LQLETEIEALKEELLFMKKNEEGEIKGLQAQIASSGLTVEVDIPKSQDLAKLMADIWAQYDELARKSQEELGKYW  
SQQIEESITVVTMQSTEMEQFNRIILLHLESELAQTWAEGQCQAQYEALLSIRVKLEAEIATYHHLEDTTTGRI  
VDGKVGSETNNTKVLRH

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**FIGURE 779A**

CGGTCCCTCGCCGCGCCGCCCCGAGGGGCACTTCGGGCGGCGGTTCACTTCCTGGTTGGGTGGATGGAGCCGGGC  
GGGAGCGCGCGCGGGGGAGGGGCGGCGGGTCAGTCTCGGCCGCGCTCCCGGGATCAGCTGGCGGGCGGGCGGG  
AGCCGAGCGCGGCCCGGCTCTCGCTGCAGCGCCGCTCTTCTCTGCGTCGCAGGCCGGCCCGCGGCCGTGACA  
ATGTCGCGGGGCTGGTAGCAGGGCGCCGCGCCGAGCCGTCTCAAGTTAACTTACACGAATCGCTTTCTGGA  
GGAGGAGGGGACCCGCTGCGCGATTGACACGCATATTCTATAGGCATCCTCCCTCAGCCCCACCCCCACGGCC  
GGATTCGGGTGGCTCCTCTCCGAGGTGAAATCTGAGAAGAAATCCTTGGATCTCTTTTCTAAAAA  
AAAAAATCTAGAAACCATCGGTATTTTGTCTTGTCTCCCTATTTCGAAGATGAAGAAGTTTTTCGACTC  
CCGCGAGAGCAGGGCGGCTCTGGCCTGGGCTCCGGCTCCAGCGGAGGAGGGGCGAGCACCTCGGGCCTGGGCAG  
TGGCTACATCGGAAGAGTCTTCGGCATCGGGCGACAGCAGGTACAGTGGACGAGGTGTTGGCGGAAGGTGGATT  
TGCTATTGTATTTCTGGTGAGGACAAGCAATGGGATGAAATGTGCCTTGAAACGCATGTTTGTCAACAATGAGCA  
TGATCTCCAGGTGTGCAAGAGAGAAATCCAGATAATGAGGGATCTTTCAGGGCACAAGAATATTGTGGGTTACAT  
TGATTCTAGTATCAACAACGTGAGTAGCGGTGATGTATGGGAAGTGCTCATTCTGATGGACTTTTGTAGAGGTGG  
CCAGGTGGTAAACCTGATGAACAGCGCCTGCAAACAGGCTTTACAGAGAATGAAGTGCTCCAGATATTTTGTGA  
TACCTGTGAAGCTGTTGCCCGCTGCATCAGTGCAAACTCCTATTATCCACCGGGACCTGAAGGTTGAAACAT  
CCTCTTGCATGACCGAGGCCACTATGTCCTGTGTGACTTTGGAAGCGCCACCAACAAATTCCAGAATCCACAAAC  
TGAGGGAGTCAATGCAGTAGAAGATGAGATTAAGAAATACACAACGCTGTCTATCGAGCACCAGAAATGGTCAA  
CCTGTACAGTGGCAAAATCATCACTACGAAGGCAGACATTTGGGCTCTTGGATGTTTGTGTATAAATTATGCTA  
CTTCACTTTGCCATTTGGGGAAAGTCAGGTGGCAATTTGTGATGGAACTTCACAATTCCTGATAATTCTCGATA  
TTCTCAAGACATGCACTGCCTAATTAGGTATATGTTGGAACAGACCCTGACAAAAGGCCGGATATTTACCAGGT  
GTCCTACTTCTCATTAAAGCTACTCAAGAAAGAGTGCCCAATTCCAAATGTACAGAACTCTCCCATTCTGCAAA  
GCTTCCTGAACCAGTGAAAGCCAGTGAGGCAGCTGCAAAAAGACCCAGCCAAAGGCCAGACTGACAGATCCCAT  
TCCCACCACAGAGACTTCAATTGCACCCCGCCAGAGGCCATAAGCTGGGCAGACTCAGCCGAACCCAGGAATCCT  
TCCCATCCAGCCAGCGCTGACACCCCGGAAGAGGGCCACTGTTAGCCCCACCTCAGGCTGCAGGATCCAGCAA  
TCAGCCTGGCCTTTTAGCCAGTGTTCCCAACCAAAACCCCAAGCCCCACCCAGCCAGCCTCTGCCGCAAACTCA  
GGCCAAGCAGCCACAGGCTCCTCCACTCCACAGCAGACGCCTTCTACTCAGGCCCAGGGTCTGCCCGCTCAGGC  
CCAGGCCACACCCAGCACCAGCAGCAACTCTTCTCAAGCAGCAACAGCAGCAGCAACAGCCACCGCCAGCACA  
GCAGCAGCCGGCAGGCACGTTTTTACCAGCAGCAGCAGGCCCAGACTCAGCAGTTTCAGGCAGTACATCCAGCAAC  
CCAGAAACCAGCAATTGCTCAGTTCCCTGTGGTGTCCCAAGGAGGCTCTCAACAGCAGCTAATGCAGAATTTCTA  
CCAGCAGCAGCAGCAGCAACAACAACAGCAACAGCAACAGCTGGCCACAGCCCTGCATCAACAACAGCTGAT  
GACTCAGCAGGCTGCCTTGACAGCAAAAGCCCACTATGGCAGCAGGACAGCAGCCCCAGCCACAGCCAGCTGCAGC  
CCCACAGCCAGCCCTGCCAGGAGCCAGCGATTCAAGCCCCAGTAAGACAACAGCCAAAGGTTTCAGACAACCCC  
ACCTCCTGCCGTCCAGGGGCGAGAAAGTTGGATCTCTCACTCCACCCTCATCCCCAAAACCCAAACGTGCTGGGCA  
CAGGCGTATTCTCAGTGACGTAACCCACAGTGACGTCTTTGGGGTCCCTGCCAGCAAATCAACCCAGCTGCTCCA  
GGCAGCTGCAGCTGAGGCCAGTCTCAATAAGTCCAAGTCTGCAACCACCACTCCATCAGGCTCTCCTCGGACCTC  
TCAACAAAACGTTTATAATCCTTCAGAAGGTCTACGTGGAATCCCTTTGATGACGATAATTTCTCCAACTCAC  
AGCTGAAGAACTGCTAAACAAGGACTTTGCCAAGCTTGGGGAAGGCAACATCCCGAGAAGCTTGGAGGCTCAGC  
TGAGAGTTTGATCCAGGCTTTCAATCAACCCAAGGTGATGCTTTTGCTACGACCTCATTTTCTGCTGGAAGTGC  
TGAAAAAGGAAGGGTGGGCAGACTGTGGAATCTGGCCTCCCGCTTCTAAGCGTGTCTGATCCTTTTATTCTCT  
TCAAGTACCTGATGCACCAGAAAACTAATTGAGGGACTCAAATCTCCTGACACTTCTCTTCTGCTCCCTGACCT  
CTTGCTATGACAGATCCTTTTGGTAGCACTTCTGATGCTGTAATTGGTAAAGTCATCATCTCTGTTTCTTCACT  
CATGCATGATATGTGTGCCTGTTTCAAGAATGACAAGTACCTAGTTAAACCAATCCCTGGGGAATAGCCCTGCCAC  
CCCAGAAGCCAAGGCTATTTAATCTCACTTGTATCACTCCAAATGAAGTGTTTCTTGTCTTTTCGGGGGTACAA  
CGTCTATTTTTTGCCTTTCTTGATATCTGGAGATTTCTAGAGTGGATCTCTTATGAATGAGGAGGAATGTGGAAA  
GTTTCACATTTAGTTAGAAGAACTTTAAAAAATTGGTTTCTAACTAGACTACCTTTACTGAACCTAATGAAATTT  
AGCAGATTCTTCTTTTTTTTTTTTTTTTGTGTTGAGACAGAGTTTCACTCTTGTGCTTAGGCTGGAGTGCAATGGCA  
AGATCTCAGCTCACTGCAACCTCCATCTCCCGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCGAGTAGCTGAGA  
TTACAGGCATGCACCACCATGCCTGGCTAATTTTTATATTTTAGTAGAGATAGGGTTTCTCCATGTTGGTCAGG  
CTGGTCTCGAACTCCTGACCTCAGGTGATCCACCTGCCTTGGCCTCCCAAGTGCTGGGATTACAGGGGTGAGCC

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**FIGURE 779B**

ACCATGCCAGCCAGATTCTTCTTTAGAAAGGCCCATGTACATCCAGCTGCAGTGGGACGAGCCTGGGAAGCATA  
GGAAGACCCCATCCCTACAAAAAAATGTTGTTAGTTAGCCAGGTGTGGGGGTGCACACCTGTGCTACCAGCTCT  
TTGGGAGGCTGAGACGGAAGATCACTTTGAGCCAGGGGGTTTGAGGCTGCAGTGAGCCCTGATCATGCCACTGCC  
CTCCAGCTTAAGTGACAGAGACCCATCTTAAACAAAATTAAAAAATTTAAAAAGGTCCATGTATATACCAAGTAT  
CAGTAACTGAGAAAACATTTTGCCCACTGGTTAAGCCCCATAAATAGAATCCAGGGCAGGGGCTTGGTCTGCTTC  
CTCTCTCACATTTTCCTATGTTCCAACAGCAAGGCAGGCAAGATTTGCAAAATGTCCAAGGCCCTGTACTCCAG  
GAGGGTCCAATCATGAGGCACCTAATAATGCCTTTGGGCAGAAAGTCCTAGAACTCAGAAGTGCCATGACCTTGC  
ATAGGGGTAGGCCTGCAGCTGAGGGGTGTCACGTGGTGCAAAAGGCCTCCCAGCTACATCCTGGGATGGGGTTTG  
AGATGGATTAATGGCCTTTGCATGGCACAGAGGATGTTTGCCCCAGGTTTATCCCTTAATAAAAAGTGAAATTAC  
CAGAAAAAATTAAGGTGCCTTTTCAGCCCATCTCTTCTGACATGGAAGAGGTTTGCTGAGCGGCTTATGTTCTGAA  
TTTGTTTATGAGAACTGATCATTAGTGAGACTGGCCACAGTATTTAACCTTGACATGCATGCTCAGTGAAGCCT  
AGACATTCAGAGCAGCAGAAATAAAGTAACCTTATTTTTCTTTCCACCTTGCCTGAGACTGGCATTTTAGAGACCT  
GTTAAAGAAAGTCTTCACATGGCTGGGTGCAGTGGCTCACACTTGTAACCACAGGACTTTGGGAGGCCAAGGTG  
GGATAGATCGCTTGAGCTCAGGAGCAAGACACCATCTCAAAAAATGAGAATT

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**FIGURE 780**

GCCCCAGGTGCGCTTCCCCTAGAGAGGGATTTCGCGTCTCGTGGGCAGAGGAACAACCAGGAACCTTGGGCTCAG  
TCTCCACCCACAGTGGGGCGGATCCGTCCCGGATAAGACCCGCTGTCTGGCCCTGAGTAGGGTGTGACCTCCGC  
AGCCGCAGAGGAGGAGCGCAGCCCGGCTCGAAGAACTTCTGCTTGGGTGGCTGAACTCTGATCTTGACCTAGAG  
TCATGGCCATGGCAACCAAGGAGGTACTGTCAAAGCTGCTTCAGGATTCAATGCCATGGAAGATGCCCAGACCC  
TGAGGAAGGCCATGAAAGGGCTCGGCACCGATGAAGACGCCATTATTAGCGTCCTTGCCCTACCGCAACACCGCCC  
AGCGCCAGGAGATCAGGACAGCCTACAAGAGCACCATCGGCAGGGACTTGATAGACGACCTGAAGTCAGAACTGA  
GTGGCAACTTCGAGCAGGTGATTGTGGGGATGATGACGCCCACGGTGCTGTATGACGTGCAAGAGCTGCGAAGGG  
CCATGAAGGGAGCCGGCACTGATGAGGGCTGCCTAATTGAGATCCTGGCCTCCCGGACCCCTGAGGAGATCCGGC  
GCATAAGCCAAACCTACCAGCAGCAATATGGACGGAGCCTTGAAGATGACATTGCTCTGACACATCGTTCATGT  
TCCAGCGAGTGTGTTGTCTCTGTGACGCTGGTGGGAGGGATGAAGGAAATTATCTGGACGATGCTCTCGTGAGAC  
AGGATGCCCAGGACCTGTATGAGGCTGGAGAGAAGAAATGGGGGACAGATGAGGTGAAATTTCTAACTGTTCTCT  
GTTCCCGGAACCGAAATCACCTGTTGCATGTGTTTGATGAATACAAAAGGATATCACAGAAGGATATTGAACAGA  
GTATTAATCTGAAACATCTGGTAGCTTTGAAGATGCTCTGCTGGCTATAGTAAAGTGCATGAGGAACAAATCTG  
CATATTTTGCTGAAAAGCTCTATAAATCGATGAAGGGCTTGGGCACCGATGATAACACCCTCATCAGAGTGATGG  
TTTCTCGAGCAGAAATTGACATGTTGGATATCCGGGCACACTTCAAGAGACTCTATGGAAAGTCTCTGTACTCGT  
TCATCAAGGGTGACACATCTGGAGACTACAGGAAAGTACTGCTTGTTCTCTGTGGAGGAGATGATTAATAAATAAA  
ATCCCAGAAGGACAGGAGGATTCTCAACACTTTGAATTTTTTTAACTTCATTTTTCTACACTGCTATTATCATT  
TCTCAGAAATGCTTATTTCCAATTAACCGCTACAGCTGCCCTCTAGAATATAGACTGTCTGTATTATTATTAC  
CTATAATTAGTCATTATGATGCTTTAAAGCTGTACTTGCATTTCAAAGCTTATAAGATATAAATGGAGATTTTAA  
AGTAGAAATAAATATGTATTCCATGTTTTTAAAGATTACTTTCTACTTTGTGTTTCACAGACATTGAATATATT  
AAATTATTCCATATTTTCTTTTTCAGTGAAAAATTTTTTAAATGGAAGACTGTTCTAAAATCACTTTTTTCCCTAA  
TCCAATTTTTAGAGTGGCTAGTAGTTTCTTCATTTGAAATTGTAAGCATCCGGTCAGTAAGAATGCCCATCCAGT  
TTTCTATATTTCATAGTCAAAGCCTTGAAAGCATCTACAAATCTTTTTTTTAGGTTTTGTCCATAGCATCAGTT  
GATCCTTACTAAGTTTTTTCATGGGAGACTTCCTTCATCACATCTTATGTTGAAATCACTTTCTGTAGTCAAAGTA  
TACCAAAACCAATTTATCTGAACATAAATTCTAAAGTATGGTTATACAAACCATATACATCTGGTTACCAAAACATA  
AATGCTGAACATTCCATATTATTATAGTTAATGTCTTAATCCAGCTTGCAAGTGAATGGAAAAAAAATAAGCTT  
CAAACCTAGGTATTCTGGGAATGATGTAATGCTCTGAATTTAGTATGATATAAAGAAAACTTTTTGTGCTAAAAA  
TACTTTTTAAATCAATTTTGTGATTGTAGTAATTTCTATTTGCACTGTGCCTTTCAACTCCAGAAACATTCTG  
AAGATGTACTTGGATTTAATTAAAAAGTTCACCTTGT

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**FIGURE 781**

MAMATKGGTVKAASGFNAMEDAQTLRKAMKGLGTDEDAIISVLAYRNTAQRQEIRTAYKSTIGRDLIDDLKSELS  
GNFEQVIVGMMTPTVLYDVQELRRAMKGAGTDEGCLIEILASRTPEEIRRISQTYQQQYGRSLEDDIRSDTSFMF  
QRLVLSLSAGGRDEGNYLDDALVRQDAQDLYEAGEKKWGTDEVKFLTVLCSRNRNHLHVFDEYKRISQKDIEQS  
IKSETSGSFEDALLAIVKCMRNKSAYFAEKLYKSMKGLGTDDNTLIRVMVSRAEIDMLDIRAHFKRLYGKSLYSF  
IKGDTSGDYRKVLLVLCGGDD

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**FIGURE 782**

CGCCACCGCCGCGCCCTCGCCACCCGCCCGCCCGCGCTCCCGGCCCCGCTCGCCCCCTCCGCCGCCGCCGCC  
GCCCCCTGCGACTACGCTGCGGCCCTCCCGCCCGCTCCCGCTCGCTCCCGCGGCCCTCGCTCGCCTCGCGCCGGCAG  
TTTTGGGCTACACCTCCCCTCCCCCGCCAGCCGCCAAAGACTTGACCACGTAACGAGCCCAACTCCCCGAAC  
GCCGCCCGCGCTCGCCATGGATGCCGGTGTGACTGAAAGTGGAATAATGTGACTCTCACCATTGGCTTCTTA  
TGCACGAAAGGAAGTAGGAAGCATCATTGGGAAGAAAGGGGAGTCGGTTAAGAGGATCCGCGAGGAGAGTGGCG  
CGCGGATCAACATCTCGGAGGGGAATTGTCCGGAGAGAATCATCACTCTGACCGGCCCCACCAATGCCATCTTA  
AGGCTTTCGCTATGATCATCGACAAGCTGGAGGAAGATATCAACAGCTCCATGACCAACAGTACCGCGGCCAGCA  
GGCCCCCGGTACCCCTGAGGCTGGTGGTGCCGGCCACCCAGTGCGGCTCCCTGATTGGGAAAGGCGGGTGTAAAG  
TCAAAGAGATCCGCGAGAGTACGGGGGCGCAGGTCCAGGTGGCGGGGGATATGCTGCCCAACTCCACCGAGCGGG  
CCATCACCATCGCTGGCGTGCCGAGTCTGTACCGAGTGTGTCAAGCAGATTGCTGGTGGTATGCTGGAGACGC  
TCTCCAGTCTCCGCAAGGGAGAGTCATGACCATTCCGTACCAGCCCATGCCGGCCAGCTCCCCAGTCATCTGCG  
CGGGCGGCCAAGATCGGTGCAGCGACGCTGCGGGCTACCCCCATGCCACCCATGACCTGGAGGGACCACCTCTAG  
ATGCCTACTCGATTCAAGGACAACACACCATTTCTCCGCTCGATCTGGCCAAGCTGAACCAGGTGGCAAGACAAC  
AGTCTCACTTTGCCATGATGCACGGCGGGACCGGATTGCGCCGAATTGACTCCAGCTCTCCAGAGGTGAAAGGCT  
ATTGGGCAAGTTTGGATGCATCTACTCAAACCACCCATGAACCTCACCATTCCAAATAACTTAATTGGCTGCATAA  
TCGGGCGCCAAGGCGCCAACATTAATGAGATCCGCCAGATGTCCGGGGCCAGATCAAAATTGCCAACCCAGTGG  
AAGGCTCCTCTGGTAGGCAGGTTACTATCACTGGCTCTGCTGCCAGTATTAGTCTGGCCCAGTATCTAATCAATG  
CCAGGCTTTCTCTGAGAAGGGCATGGGGTGAGCTAGAACAGTGTAGGTTCCCTCAATAACCCCTTTCTGCTGT  
TCTCCCATGATCCAACGTGTGTAATTTCTGGTCAGTGATTCCAGGTTTTAAATAATTTGTAAGTGTTGAGTTTCTA  
CACAACCTTTATCATCCGCTAAGAATTTAAAAATCACATTCTCTGTTGAGCTGTTAATGCTGGGATCCATATTTAG  
TTTTATAAGCTTTTCCCTGTTTTTAGTTTTGTTTTGGGTTTTTTGGCTCATGAATTTTATTTCTGTTTGTGATA  
AGAAATGTAAGAGTGGAATGTTAATAAATTTAGTTTAGTTCTGTAATGTCAAGAATTTAAGAATTAATAAACGG  
ATTGGTTAAAAATGCTTCATATTTGAAAAAGCTGGGAATTGCTGTCTT



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**FIGURE 783**

CCAAGCTGAACCAGGTGGCAAGACAACAGTCTCACTTTGCCATGATGCACGGCGGGACCGGATTGCGCCGGAATTG  
ACTCCAGCTCTCCAGAGGTGAAAGGCTATTGGGCAAGTTTGGATGCATCTACTCAAACCACCCATGAACTCACCA  
TTCCAAATAACTTAATTGGCTGCATAATCGGGCGCCAAGGCGCCAACATTAATGAGATCCGCCAGATGTCCGGGG  
CCCAGATCAAATTTGCCAACCAGTGGAAGGCTCCTCTGGTAGGCAGGTTACTATCACTGGCTCTGCTGCCAGTA  
TTAGTCTGGCCCAGTATCTAATCAATGCCAGGCTTTCCTCTGAGAAGGGCATGGGGTGCAGCTAGAACAGTGTAG  
GTTCCCTCAATAACCCCTTTCTGCTGTTCTCCCATGATCCAAGTGTGTAATTTCTGGTCAGTGATTCCAGGTTTT  
AAATAATTTGTAAGTGTTTCAAGTTTCTACACAACCTTATCATCCGCTAAGAATTTAAGCTTTTCCCTGTTTTTAGT  
TTTGTTTTGGGTTTTTTGGCTCATGAATTTTA

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**FIGURE 784**

CGCAGAGCTCGCGCGTCGGTGTGGTTACAGCCGGCAGCCACGGCACCTCCTTCCGGCCGACTAGTCTCCAGGTCC  
CGCGGTCTGGCCCCTGGTCACCCGGCGCTGTCCCTCGTTCCTTGAAGATCTCCAGTGCTACCTTTTGTTGAACAT  
CTCGAATACACCAAACCTTCTAGCTGCTAATACTCAGATTTATGGACAAGAAGTTATCATTGAAATTAAATGGTG  
GCAGACATGTCCAAGGAATATTGCGGGGATTGATCCCTTTATGAACCTTGTGATAGATGAATGTGTGGAGATGG  
CGACTAGTGGACAACAGAACAATATTGGAATGGTGGTAATACGAGGAAATAGTATCATCATGTTAGAACCTTGG  
AACGAGTATAAATAATGGCTGTTTCAGCAGAGAAACCCATGTCCTCTCTCCATAGGGCCTGTTTTACTATGATGTA  
AAAATTAGGTCATGTACATTTTCATATTAGACTTTTTGTTAAATAAACTTTTGTAATAGTCAAAAATGCTTCTC  
AGATGTTCTGAATATAGAATATCAGCTCTCATTCCAGTTTTTCTAACATGAATTTTCTGGTTGACATTGATT  
CAAAGGGTTTTATGCATTAAAGTGAAAGAATCTTATTAAATGTGAAACATGGCAAGGATTCTTCTGTCCATCAT  
CTTCAACACTGAACAGATAAAGAAGTTACAAACATGAGTGAGTTTCTTCTAAAACACTAATTTTC

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**FIGURE 785**

GTACGCCGATTCCATATGGGCGCCGGCGCGGAGCGCCGCGGGGCAGCGCGGGGTGCGCCATGGCTGAGCTGCAGCA  
GCTCCGGGTGCAGGAGGCGATGGAGTCCATGGTGAAGAGTCTGGAAAGAGAGAACATCCGGAAGATGCAGGGTCT  
CATGTTCCGGTGCAGCGCCAGCTGTTGTGAGGACAGCCAGGCCTCCATGAAGCAGGTGCACCAGTGCATCGAGCG  
CTGCCATGTGCCTCTGGCTCAAGCCCAGGCTTTGGTCACCAGTGAGCTGGAGAAGTTCCAGGACCGCCTGGCCCCG  
GTGCACCATGCATTGCAATGACAAAGCCAAAGATTCAATAGATGCTGGGAGTAAGGAGCTTCAGGTGAAGCAGCA  
GCTGGACAGTTGTGTGACCAAGTGTGTGGATGACCACATGCACCTCATCCCACTATGACCAAGAAGATGAAGGA  
GGCTCTCTTATCAATTGGAAAAATAAAGTATTTGCCAGTGGCCATCAGGCTGAGGGCAAGAATATATTTTTTATA  
AGGAATTGGGAATTTTAGTCTTTTAAGCAAAGTTTACGAATGAAGAAATGAAGGATGGCCACAAGCGTAAGGCAT  
ATGTCACTTGGCCTCTGGACACTGGTTATTTTATGTTTCAGTCCCTAAAAAATGAAATGGAAAAAAGTGGTGCTAA  
ATCGAGTCAGAGATATTACAGGAGAGTTTTAGAGCTTATTATTTCTGTGGCCAGTGCTTGTCTGGCAGTAAGG  
CTCTCCCTGTAAACAAGCCAGAGCCCTCCAAGGTACCAGACTCTTCTTACTACACAGGTACTAACAGGCTGGCAG  
GTTAGAGTTGGTGGAGTCTGAGGAGAGATATTTTCTTTGTTGCCAACATCCTGTTTACCAAAGTGTACCCCC  
ACCATCTTCCATAAGCTGTGAAACAAAATCAATGAGGTCACTAACTTAGAAGGGAAAGAAAGTTTTCTGGGTCTT  
TGTTTTCTTGATTTGGGGTAATTTATACAAGGGCATACAAGTTGATTTTAAGATGTGGAAGTGGGAGGTAGACTA  
GTTTGGATAAGAAGCTTTGAAATGTTCCCTTGTGGATCCCCATTTCTGGTCATCAAGATGTGGATGTACATTTCTTA  
AAATTATTACATGCTGCATCTTTCAGCCTGGAGACTGTGCAGAAACATGAGAGGTGATGACACACTAATTATGGG  
AAGCAGAATTACTGGCTGATGGCCCCTGAGGCTGTGTGTAACAAAATGACAGGACAATCTTGAGTAACACTTTC  
CCCTTGAAGAGAAGGGGGTTTTGATTGTGATATATACTAGTATCTAGGAATGAACAGTAAAGAGGAGCAGTTGG  
CTACTTGATTACAACAGAGTAAATGAAGTACTGGATTTGGGAAAACCTGGTTTTATTAGAACATATGGAATGAAA  
GCCTACACCTAGCATTGCCTACTTAGCCCCCTGAATTAACAGAGCCCAATTGAGACAAACCCCTGGCAACAGGAA  
ATTCAAGGGAGAAAAAGTAAGCAACTTGGGCTAGGATGAGCTGACTCCCTTAGAGCAAAGGAGAGACAGCCCCCA  
TTACCAAATACCATTTTTGCCTGGGGCTTGTGCAGCTGGCAGTGTTCCTGCCCCAGCATGGCACCTTATTGTTTT  
GATAGCAACTTCGTTGAATTTTACCAACTTATTACTTGAAATTATAATATAGCCTGTCCGTTTGTCTGTTCCAG  
GCTGTGATATATTTTCTAGTGSTTTGACTTTAAAAATAAATAAGGTTAATTTTCTCCCC

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**FIGURE 786**

MAELQQLRVQEAMESMVKSLENERENIRKMQGLMFRCSASCCEDSQASMKQVHQCIERCHVPLAQAQALVTSELEKF  
QDRLARCTMHCNDKAKDSIDAGSKELQVKQQLDSCVTKCVDDHMHLIPTMTKKMKEALLSIGK

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**FIGURE 787A**

CAGACCCGCCCGTGGCTGCAGCAGTGGTGTCCATTTTAATGACTGCCAGATTCCCACACTCAGTTCTGCTTCC  
ATGGAACCTGCAGGTTTTTGGTGCAGGAGGACAAGCCAGCATGTGTCTGCCATTCTGGGTACGTTGGTGCACGCT  
GTGAGCATGCGGACCTCCTGGCCGTGGTGGCTGCCAGCCAGAAGAAGCAGGCCATCACC GCCTTGGTGGTGGTCT  
CCATCGTGGCCCTGGCTGTCTTATCATCACATGTGTGCTGATACACTGCTGCCAGGTCCGAAAACACTGTGAGT  
GGTGCCGGGCCCTCATCTGCCGGCACGAGAAGCCCAGCGCCCTCCTGAAGGGAAGAACC GCTTGTGCCACTCAG  
AAACAGTGGTCTGAAGAGCCCAGAGGAGGAGTTTGGCCAGGTGGACTGTGGCAGATCAATAAAGAAAGGCTTCTT  
CAGGACAGCACTGCCAGAGATGCCCTGGGTGTGCCACAGACCTTCTACTTGGCCTGTAATCACCTGTGCAGCCTT  
TTGTGGGCCTTCAAAACTCTGTCAAGAACTCCGTCTGCTTGGGGTTATTTCAGTGTGACCTAGAGAAGAAATCAGC  
GGACCACGATTTCAAGACTTGTTAAAAAAGAACTGCAAAGAGACGGACTCCTGTTACCTAGGTGAGGTGTGTGC  
AGCAGTTGGTGTCTGAGTCCACATGTGTGCAGTTGTCTTCTGCCAGCCATGGATTCCAGGCTATATATTTCTTTT  
TAATGGGCCACCTCCCCACAACAGAATTCTGCCCAACACAGGAGATTTCTATAGTTATTGTTTTCTGTCAATTTGC  
CTACTGGGGAAGAAAGTGAAGGAGGGGAAACTGTTTAATATCACATGAAGACCCTAGCTTTAAGAGAAGCTGTAT  
CCTCTAACCACGAGACCCCTCAACCAGCCCAACATCTTCCATGGACACATGACATTGAAGACCATCCCAAGCTATC  
GCCACCCTTGGAGATGATGTCTTATTTATTAGATGGATAATGGTTTTATTTTAACTCTTAAAGTCAATGTAAAA  
AGTATAAAAACCCCTTCAGACTTCTACATTAATGATGTATGTGTGCTGACTGAAAAGCTATACTGATTAGAAATG  
TCTGGCCTCTTCAAGACAGCTAAGGCTTGGGAAAAGTCTTCCAGGGTGCGGAGATGGAACCAGAGGCTGGGTTAC  
TGGTAGGAATAAAGGTAGGGGTTTCAGAAATGGTGCCATTGAAGCCACAAAGCCGTAATGCCTCAATACGTTCT  
GGGAGAAAACCTTAGCAAATCCATCAGCAGGGATCTGTCCCTCTGTTGGGGAGAGAGGAAGAGTGTGTGTGTCTA  
CACAGGATAAAACCAATACATATTGTACTGCTCAGTGATTAAATGGGTTCACTTCCTCGTGAGCCCTCGGTAAGT  
ATGTTTAGAAATAGAACATTAGCCACGAGCCATAGGCATTTAGGCCAAATCCATGAAAGGGGACCAGTCATTT  
ATTTTCCATTTTGTGTGCTTGGTTGGTTTGTGCTTTATTTTTTAAAAGGAGAAGTTTAACTTTGCTATTTATTTT  
GAGCACTAGGAAAACCTATTCAGTAATTTTTTTTTTCTCATTTCATTTCAGGATGCCGGCTTTATTAACAAAAAC  
TCTAACAAGTCACCTCCACTATGTGGGTCTTCTTTCCCTCAAGAGAAGGAGCAATTGTTCCCTGAGCATCTG  
GGTCCATCTGACCCATGGGGCCTGCCTGTGAGAAACAGTGGGTCCCTCAAATACATAGTGGATAGCTCATCCCT  
AGGAATTTTCATTAAAATTTGGAAACAGAGTAATGAAGAAATAATATATAAACTCCTTATGTGAGGAAATGCTAC  
TAATATCTGAAAAGTGAAAGATTTCTATGTATTAATCTTAAAGTGACCTAGCTTATTACATCGTGAAAGGTACA  
TTTTAAATATGTTAAATTTGGCTTGAAATTTTCAGAGAATTTTGTCTTCCCTAATTCCTTCTTCTTGGTCTGGAA  
GAACAATTTCTATGAATTTTCTCTTTATTTTTTTTTTATAATTCAGACAATTCTATGACCCGTGTCTTCATTTTG  
GCACTCTTATTTAACAATGCCACACCTGAAGCACTTGATCTGTTTCAGAGCTGACCCCTAGCAACGTAGTTGAC  
ACAGCTCCAGGTTTTTAAATTACTAAAATAAGTTCAAGTTTACATCCCTTGGGCCAGATATGTGGGTTGAGGCTT  
GACTGTAGCATCCTGCTTAGAGACCAATCAACGGACACTGGTTTTTACCTCTATCAATCAGTAGTTAGCATCC  
AAGAGACTTTGCAGAGGCGTAGGAATGAGGCTGGACAGATGGCGGAAGCAGAGGTTCCCTGCGAAGACTTGAGAT  
TTAGTGTCTGTGAATGTTCTAGTTCTAGGTCCAGCAAGTCACACCTGCCAGTGCCCTCATCCTTATGCCTGTAA  
CACACATGCAGTGAGAGGCCTCACATATACGCCTCCCTAGAAGTGCCCTCCAAGTCAGTCCTTTGGAAACCAGCA  
GGTCTGAAAAAGAGGCTGCATCAATGCAAGCCTGGTTGGACCATTGTCCATGCCTCAGGATAGAACAGCCTGGCT  
TATTTGGGGATTTTTCTTCTAGAAATCAAATGACTGATAAGCATTGGATCCCTCTGCCATTTAATGGCAATGGTA  
GTCTTTGGTTAGCTGCAAAAATACTCCATTTCAAGTTAAAAATGCATCTTCTAATCCATCTCTGCAAGCTCCCTG  
TGTTTCCCTTGCCCTTTAGAAAATGAATTGTTCACTACAATTAGAGAATCATTTAACATCCTGACCTGGTAAGCTG  
CCACACACCTGGCAGTGGGGAGCATCGCTGTTTCCAATGGCTCAGGAGACAATGAAAAGCCCCCATTTAAAAAAA  
TAACAAACATTTTTTAAAAGGCCTCCAATACTCTTATGGAGCCTGGATTTTCCCACTGCTCTACAGGCTGTGAC  
TTTTTTTAAAGCATCCTGACAGGAAATGTTTTCTTCTACATGGAAAGATAGACAGCAGCCAACCCTGATCTGGAAG  
ACAGGGCCCCGGCTGGACACACGTGGAACCAAGCCAGGGATGGGCTGGCCATTGTGTCCCCGAGGAGAGATGGG  
CAGAATGGCCCTAGAGTTCTTTTCCCTGAGAAAGGAGAAAAAGATGGGATTGCCACTCACCCACCCACACTGGTA  
AGGGAGGAGAATTTGTGCTTCTGGAGCTTCTCAAGGGATTGTGTTTTGCAGGTACAGAAAAGCTGCCTGTTATCTT  
CAAGCCAGGTTTTTCGAGGGCACATGGGTACCAGTTGCTTTTTTCAGTCAATTTGGCCGGGATGGACTAATGAGGC  
TCTAACACTGCTCAGGAGACCCCTGCCCTCTAGTTGGTTCTGGGCTTTGATCTCTTCCAACCTGCCAGTCAAG  
AAGGAGGAATGACTCAAATGCCCAAAACCAAGAACACATTGCAGAAGTAAGACAAACATGTATATTTTTTAAATGT  
TCTAACATAAGACCTGTTCTCTCTAGCCATTGATTTACCAGGCTTTCTGAAAGATCTAGTGGTTACACAGAGAG

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**FIGURE 787B**

AGAGAGAGTACTGAAAAAGCAACTCCTCTTCTTAGTCTTAATAATTTACTAAAATGGTCAACTTTTCATTATCTT  
TATTATAATAAACCTGATGCTTTTTTTTAGAACTCCTTACTCTGATGTCTGTATATGTTGCACTGAAAAGGTTAA  
TATTTAATGTTTTAATTTATTTTGTGTGGTAAGTTAATTTTGATTTCTGTAATGTGTTAATGTGATTAGCAGTTA  
TTTTCCTTAATATCTGAATTATACTTAAAGAGTAGTGAGCAATATAAGACGCAATTGTGTTTTTCAGTAATGTGC  
ATTGTTATTGAGTTGTACTGTACCTTATTTGGAAGGATGAAGGAATGAATCTTTTTTTCCT

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**FIGURE 788A**

ATTTCTCCAGCCTCGTGCGGGAAATGGCTTTAATTCTGACGGCAGGGCTGTGAGGGACTAGCGGGAACCCGAG  
CCTTTTGTCAAGGAAGTGC GGCGTTCGGTGGCCAGTCATCCCCGCCGCCGCGAGCCGCTGCACTGCTGGGGGATC  
TCCCAGCAGCTCTGACGAGCGCGGGCTGCAGCATGGGCAGAAAACGCTGCCCTGCAGATTAGCTGGGTGGATTTT  
TTAAGCGCACCCCAACCCCAATAAAATAACAAAACCAACCCGAGTGGCCGACCGGAGATAGCTAAGAT  
GCCGCGCAGGAGTTTCCACCTGGATGTTTGAGGTTGTGTAGATGTGGCCGGCACCCCTTGAGAGTGGAGCTAGGGG  
GTGCAGACTGAGCAGTGAACAGAAGGAGCCTTGGACAGGGCTGGGCCAGCCTCCCGAGTTCCAGGAGCGAATTGC  
AAACCCACCGGGAAAATGAGCGAAGAGACGGTCCCCGAGGCTGCCTCGCCGCCGCCCGCCGAGGGGCGAGCCTTAC  
TTTGACCGCTTCTCAGAGGACGACCCCGAGTACATGCGCCTTCGCAACCGGGCGGGCGGACCTGCGGCAGGACTTC  
AACCTGATGGAGCAGAAGAAGCGCGTCAACCATGATCCTGCAGAGTCCCTCTTTTCAAGGAGGAGCTGGAAGGCCTC  
ATCCAGGAGCAGATGAAGAAGGGGAACAACCTCCTCCAACATCTGGGCCCTGCGACAGATCGCGGACTTCATGGCC  
AGCACCTCCCACGCAGTCTTCCCGACATCTTCCATGAATGTCTCCATGATGACGCCTATCAATGACCTCCACACA  
GCTGACTCCCTGAACCTGGCCAAAAGGGGAGCGGCTCATGCGGTGCAAGATCAGCAGTGTCTACCGACTCCTGGAC  
CTCTATGGCTGGGCCCAGCTGAGTGACACCTATGTACGTTGAGAGTCAGCAAGGAGCAGGACCACTTCCTGATC  
AGCCCTAAGGGAGTTTCTTGCAGTGAAGTCACAGCGTCCAGCCTGATCAAGGTGAACATTCTGGGAGAGGTGGTG  
GAGAAGGGCAGCAGCTGCTTCCAGTGGACACCACAGGCTTCTGTCTGCACTCGGCCATCTATGCAGCGAGGCCC  
GACGTGCGCTGCATCATCCACCTGCACACACCGGCCACAGCAGCGGTGTGCGCCATGAAGTGGGGCCTCCTGCCT  
GTCTCCCAACATGCCCTGCTGGTGGGGGACATGGCCTATTATGACTTCAATGGGGAAATGGAGCAGGAAGCCGAT  
CGGATCAACCTGCAGAAGTGCTTGGACCCACCTGCAAGATCCTGGTGCTAAGAAACCATGGAGTGGTTGCTCTG  
GGTGACACGGTAGAGGAGGCATTTTACAAGATCTTCCACCTGCAGGCTGCATGTGAGATACAGGTGTGCGGCTCTG  
TCCAGTGCCGGGGGAGTGGAGAACCTCATCTCCTGGAGCAGGAGAAGCACCGGCCCATGAGGTGGGCTCCGTG  
CAGTGGGCCGGGAGCACCTTTGGGCCTATGCAGAAGAGTCGGCTGGGGGAGCATGAGTTGAGGCCCTCATGAGG  
ATGCTGGACAACCTGGGCTACAGAACAGGTTACACGTATCGCCACCCCTTTGTTCAAGAGAAAACCAACACAAA  
AGTGAGGTGGAGATTCCAGCCACGGTCACAGCCTTCGTGTTTGAGGAGGACGGTGCCCCGGTGCCCCGCTGCGA  
CAGCATGCCAGAAGCAGCAGAAGGAGAAGACCCGCTGGCTCAATACGCCAACACCTACCTGCGGGTCAATGTG  
GCCGATGAGGTCCAGAGGAGCATGGGCAGCCCCGACCCAAGACCACGTGGATGAAGGCTGACGAGGTGGAGAAA  
TCCAGCAGTGGCATGCCGATTGCGATCGAAAACCCAAACCAATTTGTGCCTCTCTATACTGACCCCCAGGAAGTA  
CTGGAGATGAGGAACAAGATTGAGAGAACAACCGACAAGATGTGAAGTCAGCGGGGCTCAGTCCCAGCTCCTG  
GCGAGCGTCATTGCCGAGAAGAGCCGAAGCCCGTCTACAGAGAGCCAGCTGATGTCCAAGGGAGACGAGGATACC  
AAAGACGATTGAGAGGAGACGGTGCCCAACCCCTTCAGCCAACCTACTGACCAGGAGTTGGAGGAGTACAAGAAA  
GAGGTGGAGAGGAAGAACTAGAACTTGATGGAGAGAAAGAACTGCCCCAGAAGAGCCTGGCTCACCTGCAAG  
TCTGCACCTGCTTCTCCAGTGCAGAGCCCAGCGAAGGAGGCAGAGACAAAGAGCCCTTTAGTCTCTCTTCCAG  
TCTTTAGAGGAAGGTACTAAGAAGACAGAAACAAGCAAGCCGCCACCACAGAGCCCCGAAACAACCCAGCCGGAA  
GGGTGGTGGTCAACGGGAGGGAGGAGGAGCAGCGGCAGAGGAAATCCTCAGCAAGGCCCTGAGCCAGATGACC  
ACCAGTGCTGACACGGATGTTGATACCTCTAAGGACAAAACCGAGTCGGTCACCAGCGGCCCATGTCCCCAGAG  
GGCTCACCTTCCAAGTCTCCCTCAAAGAAGAAAAAGAAATTCCGAACCCCTCCTTCTCTCCTCCCTTCCCTTC  
TCCCATCTCTGTCCCTGCAAGCACAGGGCTAAGGAGGGATAGAGTAGGACCCTGGACCACATTGGAAGGGGAAC  
TTAGAGATACCCGACCAACCCCTTCGTTTTACAGTTGCCCAAGAGAAATCAGGTGACTTGCCCAAGGTACACAG  
CTAGTTAGCGGCAGAGCCTGCACTCGAATTCAGGTCTCCTGACTTCCAGTCCAGTGCTCCTTCTACTACACAACA  
CTGCCTAGTTGTGGGCTGCCTTTGTTTGGATGCTGTCCACCAATCTGAGCCTAGGGCAAGAAGGCCAGAAATGGG  
CCGTGAGCTCTCACAGGCTCAGACTAAATCAGAGGTCAAGGCTTCCCCTGAGTAAGGTCCATTCTTCCCAGGAA  
TCCAATCTCCTGTGGATGGAGCTATCTCTACATTTAAAAATCTCTTCTCTTTTCCACTTTGGGTCCCTGCCCTGC  
TGCTCAAAGTGACTAGCCAAATTGACCCCTCCAACAGAAAGTAATCTTTGTTCCCAAGGGCTGATGGCTTAGCTT  
GTACTACCCCAACATTAACCTGAGCTTTCTTCATGGAACCTCTTGAATGATGGATGGAAGAGCTATAAGAGGT  
GGTAGGCATAGGGGCAAGCCATGTAAGCTGAGGATTGGGGATGGTTTCATCAACATAAGAGGCCAGGAACCTTGAC  
CCCTTTGAATTGTGCATCTCAGGCACTTCAAACTAAAACCAAAATTTAGCATAGGAAAAAGTTGTTTAAATGCTCA  
GGGCAGAAATTTGGGGAAGTTGAAATCCTCTGTTGGCTTTGGGTGTGATAAGGAGGATCAAAAACAACAGAGGAAA  
TGCTGACTTTCTAGCTTTGCATGACACCTGGAGCAATGCACTGTACCTGCCTCACTCCTGTCCAGTGGTCAGGTT

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**FIGURE 788B**

TCCCCTGACCTTCCCTCACCCCCAGAAACACTTGCTTACAGACCGAAACTGGCATCTTACTCTTGGCACCTTGAC  
TTGCACCTCTGAGGTTCCAACCTCAGTCATTCTTTGTCCAGCAGAGGAGAATCAGAAATGAGCCCTTCAGGATTA  
ATCCTCTTGACCACTCTCAGAGAAATGCTGGGTATCCCTGTCCTTGTCCCTATCTGTCCATCCTGGGGCCTGG  
TAATGGCCACAGTTATTGTTTTAAATGCCAACACTGTCTTCTCATGTTCTTCCGTGGGGCATTGATTAATGAGCA  
TTTGTTGGCTCCTAAAAATTAGACAATCCATTCTCTTG



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**FIGURE 789**

GGCACGAGGCGGAGAACAGGAGCAATGGAGGGCGGGCTGGGGCGTGCTGTGTGCTTGCTGACCGGGGCCTCCCGCG  
GCTTCGGCCGGACGCTGGCCCCGCTCCTGGCCTCGCTGCTGTCGCCCCGGCTCCGTGCTTGTCTTAGCGCCCGCA  
ACGACGAGGCACTGCGCCAGCTGGAGGCCGAGCTGGGCGCCGAGCGGTCTGGCCTGCGCGTGCTGGTGGGGTGCCCC  
CCGACCTGGGCGCCGAGGCCGGCTTGCAGCAGCTGCTCGGCGCCCTGCGCGAGCTCCCCCGGGCCCAAGGGGCTGC  
AGCGACTGCTGCTTATCAACAACGCGGGCTCTCTTGGGGATGTGTCCAAAGGCTTCGTGGACCTGAGTGACTCCA  
CTCAAGTGAACAACACTACTGGGCACTGAACCTGACCTCCATGCTCTGCCTGACTTCCAGCGTCCTGAAGGCCTTCC  
CGGACAGTCCTGGCCTCAACAGAACCGTGGTTAACATCTCGTCCCTCTGTGCCCTGCAACCTTTCAAAGGCTGGG  
CGCTGTACTGTGCAGGAAAGGCTGCTCGTGATATGCTGTTCCAGGTCCCTGGCGCTGGAGGAACCTAATGTGAGGG  
TGCTGAACTATGCCCCAGGTCCTCTGGACACAGACATGCAGCAGTTGGCCCCGGGAGACCTCCGTGGACCCAGACA  
TGCGAAAAGGGCTGCAGGAGCTGAAGGCAAAGGGGAAGCTGGTGGATTGCAAGGTGTCAGCCCAGAACTGCTGA  
GCTTACTGGAAAAGGACGAGTTCAAGTCTGGAGCCACGTGGACTTCTATGACAAATAAGCCCATGTTTTTGGCT  
TCCTGAACCTTTTTGCCCCACTTTTAGACATACCCCAGAGCCCTGTGGCTCCCCACACCCTGCCATAGGGGCGAG  
TCCTGCCTTACACATAGAAGCATTATGCCTGCTGCCCTGCCCTCAGGCACAGCCAGCTGTGAGCTCCCAGGTCA  
TTGGCCTTACCAGTTGTCAGGAGTCTGTGCTGTGCACCCTGGGTTATAAGGAGGCTTAGGAGAGAGGTTATGGGT  
ATTGGTGTCTCTATCCCCAGGAATAGAACTTAAGGGGTGGGAAGAACAGGAAAAGAAGCTGGAACACAGAAGAGA  
GGAGGTTGTGCTCTTGTCTCATAGCAAGCCTGTGGGTAGAGGAAAGAGTGATCTGGTGTGCAATAGGAGGACCCA  
TGTAATTTCGCAGATGGCCTGGATGGGAGGAAGGGCAGACGGTACATGTCCCAGCCCACATAGATGCCCCTTGCT  
GAGGGTAGCAGGACCTTCTGTTGAACCTTTGTGTCCTCACTCTGATGTCTCCTTCCTTCAGAATCTACCACCCCTC  
CCCCAGGCTGGGAGAAGGGGCTCCTGGGTGTCTGTATACACGCCAAAGGCAGATACAAATAAAATACAGATTGTC  
CTTTAAAAAAAAAAAAAAAAAAAA

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**FIGURE 790**

MEGGLGRAVCLLTGASRGFGRTLAPLLASLLSPGSVLVLSARNDALRQLEAELGAERSGLRVVRVPADLGAEAG  
LQQLLGALRELPRPKGLQRLLLINNAGSLGDVSKGFVDLSDSTQVNNYWALNLTSMCLTSSVLKAFDPSPLNR  
TVVNISSLALQPFKGWALYCAGKAARDMLFQVLALEEPNVRVLNYAPGPLDTDMQQLARETSVDPDMRKGLQEL  
KAKGKLVDCKVSAQKLLSLEKDEFKSGAHVDFYDK

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**FIGURE 791**

GGAGCATGGAGGGCGGGCTGGGGCGTGCTGTGTGCTTGCTGACCGGGGCTCCCGCGGCTTCGGCCGGACGCTGG  
CCCCGCTCCTGGCCTCGCTGCTGTCGCCCCGGCTCCGTGCTTGTCCTTAGCGCCCGCAACGACGAGGCACTGCGCC  
AGCTGGAGGCCGAGCTGGGCGCCGAGCGGTCTGGCCTGCGCGTGGTGCGGGTGCCCGCCGACCTGGGCGCCGAGG  
CCGGCTTGACAGCAGCTGCTCGGCGCCCTGCGCGAGCTCCCCGGGCGCAAGGGGCTGCAGCGACTGCTGCTTATCA  
ACAACGCGGGTAAGACCCCGGGGCTGGAGCGGACTCCCCATGTGAGCGCCCACTTCCTCCACCGCTGGGGAATTT  
AAGGGCTACTCCTAGGGGTCAGATAGGACGCCTAGAAATCTAAAGCCCTAGTTGTTCCAGCTTGAGTAGCAAGTG  
GAGGCGAGGTGTACAGGAAGACTCGGTGCCGTCGGGACAACAGTCTGCCCCCACTTCCTGGAAAATTGGCCAGCC  
GGGTTTTCCAAAGCGCCTGTAGAACTTTCCCGAGCCCCTTGCTCTGCGCCCTCTGGCGGAGGCCTGAGTCAGGGC  
TTGGAGTCTCCAAACAAGTAACTCTCTGCTTCTCCAAAGGACCGCTAGAGCTTTCCTTCAGCCCCACGGCAAGG  
GCTCTCTTGGGGATGTGTCCAAAGGCTTCGTGGACCTGAGTGACTCCACTCAAGTGAACAACACTACTGGGCACTGA  
ACTTGACCTCCATG

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**FIGURE 792**

GTTCCAAGGTTTGC GGCCCGGTCTCGGAGAAGAGGGGAGAGTGGAGGGCCGCTGAATAAGCTTCCAAAATGATGC  
CCACACCAGTTATCCTATTGAAAGAGGGGACTGATAGCTCCCAAGGCATCCCCCAGCTTGTGAGTAACATCAGTG  
CCTGCCAGGTGATTGCTGAGGCTGTAAGAACTACCCTGGGTCCCCGTTGGCATGGACAAGCTTATTGTAGATGGCA  
GAGGCAAAGCAACAATTTCTAATGATGGGGCCACAATTCTGAAACTTCTTGATGTTGTCCATCCTGCAGCAAAGA  
CTTTGGTAGACATTGCCAAATCCCAAGATGCTGAGGTGGGTGATGGCACCACCTCAGTGACCTTGCTGGCTGCAG  
AGTTTCTGAAGCAGGTGAAACCCTATGTGGAGGAAGGTTTACACCCCCAGATCATCATTTCGAGCTTTCCGCACAG  
CCACCCAGCTGGCAGTTAACAAGATCAAAGAGATTGCTGTGACCGTGAAGAAGGCAGATAAAGTGGAGCAGAGGA  
AGCTGCTGGAAAAGTGTGCCATGACCGCTCTGAGCTCCAAGCTGATCTCCCAGCAGAAAGCTTTCTTTTGCTAAGA  
TGGTGGTGGATGCAGTGATGATGCTCGATGATTTGCTGCAGCTTAAAAATGATTGGAATCAAGAAGGTACAGGGTG  
GAGCCCTCGAGGATTCTCAGCTGGTAGCTGGTGTTCATTCAAGAAGACTTTCTCTTACGCTGGGTTTTGAAATGC  
AACCCAAAAAGTACCACAATCCCAAGATTGCCCTTTTGAATGTCGAGCTCGAGTTGAAAGCTGAGAAAGACAATG  
CTGAGATAAGAGTCCACACAGTTGAGGATTATCAGGCAATTGTTGATGCTGAGTGGAACATTCTCTATGACAAGT  
TAGAGAAGATCCATCATTCTGGAGCCAAAGTTGTCTTGTCCAAACTCCCCATTGGGGATGTGGCCACCCAGTACT  
TTGCTGACAGGGACATGTTCTGTGCTGGCCGAGTACCTGAGGAGGATCTGAAGAGGACAATGATGGCCTGTGGAG  
GCTCAATCCAGACCAGTGTGAATGCTCTGTGAGCAGATGTGCTGGGTGATGCCAGGTGTTTGAAGAGACCCAGA  
TTGGAGGCGAGAGGTACAATTTTTTTTACTGGCTGCCCCAAGGCCAAGACATGCACCTTCATTCTCCGTGGCGGGC  
CCGAGCAGTTTATGGAGGAGACAGAGCGGTCCCTGCATGATGCCATCATGATCGTCAGGAGGGCCATCAAGAATG  
ATTAGTGGTGGCTGGTGGCGGGGCCATTGAGATGGAACCTCTCCAAGTACCTGCGGGATTACTCAAGGACTATT  
CAGGAAAACAGCAGCTGTTGATTGGGGCTTATGCCAAGGCCTTGAGATTATCCACGCCAGCTGTGTGACAATG  
CTGGCTTTGATGCCACAAACATTCTCAACAAGCTGCGGGCTCGGCATGCCAGGGGGGTACATGGTATGGAGTAG  
ACATCAACAACGAGGACATTGCTGACAACCTTTGAAGCTTTCGTGTGGGAGCCAGCTATGGTGCAGATCAATGCGC  
TGACAGCAGCCTCTGAGGCTGCGTGCCTGATCGTGTCTGTAGATGAAACCATCAAGAACCCCCGCTCGACTGTGG  
ATGCTCCACAGCAGCAGGCCGGGGCCGTGGTGTGGCCGCCCCACTTGAGAGGCACCCACCCATCACATGGCT  
GGCTGGCTGTGGGTGCACTTACCCTCCTTGCTTGGTTACTTCATTTTACAAGGAAGGGGTAGTAATTGGCCCA  
CTCTCTTCTTACTGGAGGCTATTTAAATAAAATGTAAGACTTCAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 793**

MMPTPVILLKEGTDSSQGIPQLVSNISACQVIAEAVRTTLGPRGMDKLIVDGRGKATISNDGATILKLLDVVHPA  
AKTLVDIAKSQDAEVGDGTTSVILLAAEFLKQVKPYVEEGLHPQIIIRAFRTATQLAVNKIKEIAVTVKKADKVE  
QRKLLKCAMTALSSKLISQQKAFFAKMVVDVMMMLDDLQLKMIKIKKVQGGALEDSQLVAGVAFKKTFSYAGF  
EMQPKKYHNPKIALLNVELELKAEKDNAEIRVHTVEDYQAIVDAEWNILYDKLEKIHHSKAKVVLKLPIGDVAT  
QYFADRD MFCAGRVPEEDLKRTMMACGGS IQTSVNALSADVLGRCQVFEE TQIGGERYNFFTGCPKAKTCTFILR  
GGAEQFMEETERSLHDAIMIVRRAIKNDSVVAGGGA IEMELSKYL RDYSRTIPGKQQLLIGAYAKALEIIPRQLC  
DNAGFDATNILNKLRRARHAQGGTWYGV DINNEDIADNFEAFVWEPAMVRINALTAASEAACLIVSVDETIKNPRS  
TVDAPTAAGRGRGRGRPH

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**FIGURE 794**

ATATAACCGCGTGGCCCGCGCGCGCTTCCCTCCCGGCGCAGTCACCGGCGCGGTCTATGGCTGCGACTTCTCT  
AATGTCTGCTTTGGCTGCCCCGGCTGCTGCAGCCCGCGCACAGCTGCTCCCTTCGCCTTCGCCCTTCCACCTCGC  
GGCAGTTCGAAATGAAGCTGTTGTCATTTCTGGAAGGAACTGGCCCAGCAGATCAAGCAGGAAGTGCGGCAGGA  
GGTAGAAGAGTGGGTGGCCTCAGGCAACAAACGGCCACACCTGAGTGTGATCCTGGTTGGCGAGAATCCTGCAAG  
TCACTCCTATGTCTCAACAAAACCAGGGCAGCTGCAGTTGTGGGAATCAACAGTGAGACAATTATGAAACCAGC  
TTCAATTTTCAGAGGAAGAATTGTTGAATTTAATCAATAAACTGAATAATGATGATAATGTAGATGGCCTCCTTGT  
TCAGTTGCCTCTTCCAGAGCATATTGATGAGAGAAGGATCTGCAATGCTGTTTCTCCAGACAAGGATGTTGATGG  
CTTTCATGTAATTAATGTAGGACGAATGTGTTTGGATCAGTATTCCATGTTACCGGCTACTCCATGGGGTGTGTG  
GGAAATAATCAAGCGAACTGGCATTCCAACCCTAGGGAAGAATGTGGTTGTGGCTGGAAGGTCAAAAAACGTTGG  
AATGCCCATTGCAATGTTACTGCACACAGATGGGGCGCATGAACGTCCCGGAGGTGATGCCACTGTTACAATATC  
TCATCGATATACTCCCAAAGAGCAGTTGAAGAAACATACAATTCTTGAGATATTGTAATATCTGCTGCAGGTAT  
TCCAAATCTGATCACAGCAGATATGATCAAGGAAGGAGCAGCAGTCATTGATGTGGGAATAAATAGAGTTCACGA  
TCCTGTAACCTGCCAAAACCAAGTTGGTTGGAGATGTGGATTTTGAAGGAGTCAGACAAAAAGCTGGGTATATCAC  
TCCAGTTTCTGGAGGTGTTGGCCCCATGACAGTGGCAATGCTAATGAAGAATACCATTATTGCTGCAAAAAAGGT  
GCTGAGGCTTGAAGAGCGAGAAGTGCTGAAGTCTAAAGAGCTTGGGGTAGCCACTAATTAACTACTGTGTCTTCT  
GTGTCACAAACAGCACTCCAGGCCAGCTCAAGAAGCAAAGCAGGCCAATAGAAATGCAATATTTTAAATTTATTC  
TACTGAAATGGTTTAAATGATGCCTTGATTTTATTGAAAGCTTAAATGGGTGGGTGTTTCTGCACATACCTCTG  
CAGTACCTCACCAGGAGCATTCCAGTATCATGCAGGGTCTGTGATCTAGCCAGGAGCAGCCATTAACTTAGTG  
ATTAATATGGGAGACATTACCATATGGAGGATGGATGCTTCACTTTGTCAAGCACCTCAGTTACACATTCGCCTT  
TTCTAGGATTGCATTTCCCAAGTGCTATTGCAATAACAGTTGATACTCATTTTAGGTACCAGACCTTTTGAGTTC  
AACTGATCAAACCAAAGGAAAAGTGTGCTAGAGAAAATTGGGGAAAAGGTGAAAAAGAAAAATGGTAGTAATT  
GAGCAGAAAAAAATTAATTTATATATGATTGATTGGCAACCAGATTTATCTAAGTAGAACTGAATTGGCTAGGA  
AAAAAGAAAAACTGCATGTTAATCATTTTCCTAAGCTGTCCTTTTGAGGCTTAGTCAGTTTATTGGGAAAATGTT  
TAGGATTATTCCTTGCTATTAGTACTCATTTTATGTATGTTACCTTCAGTAAGTTCTCCCCATTTTAGTTTTCT  
AGGACTGAAAGGATTCTTTTCTACATTATACATGTGTGTTGTCATATTTGGCTTTTGCTATATACTTTAACTTCA  
TTGTTAAATTTTTGTATTGTATAGTTTCTTTGGTGTATCTTAAACCTATTTTGA AAAACAACTTGGCTTGAT  
AATCATTTGGGCAGCTTGGGTAAGTACGCAACTTACTTTTCCACCAAAGAACTGTCAGCAGCTGCCTGCTTTTCT  
GTGATGTATGTATCCTGTTGACTTTTCCAGAAATTTTTTAAGAGTTTGAGTTACTATTGAATTTAATCAGACTTT  
CTGATTAAAGGGTTTCTTTCTTTTTTAATAAAACACATCTGTCTGGTATGGTA

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**FIGURE 795**

MSALAAARLLQPAHSCSLRLRPFHLAAVRNEAVVISGRKLAQQIKQEVQRQEEVWVASGNKRPHLSVILVGENPAS  
HSYVLNKTRAAAVVGINSETIMKPASISSEELNLINKLNDDNVDGLLVQLPLPEHIDERRICNAVSPDKDVDG  
FHVINVGRMCLDQYSMLPATPWGVWEIIKRTGIPTLGKNVVAGRSKNVGMPIAMLLHTDGAHERPGGDATVTIS  
HRYTPKEQLKKHTILADIVISAAGIPNLITADMIKEGAVIDVGINRVHDPVTAKPKLVGDVDFEGVRQKAGYIT  
PVPGGVGPMTVAMLMKNTIIAAKKVLRLEEREVLKSKELGVATN

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**FIGURE 796**

GGAAAATTTGTCACAGCAGCCAGAGGGGTTTAAACAGGAGTGCAGAGGGATAAGGGCAGCTTCTGCCCTCTGCCCA  
AGAGCTGGCCACCTCTTTAAAGACTGAGGGAACAGTGGGAGGAGGAAGTGTGGGACAGTGTGGTACCTATCTGTC  
CCCCCTCTGGAGGGGTTGACAAGGGAAAGGGCACCGGGGGGCACAGAGATGCAGGACAGATTGCACATCCTGGAG  
GACCTGAATATGCTCTACATTCGGCAGATGGCACTCAGCCTGGAGGACACGGAGTTGCAGAGGAAGCTAGACCAT  
GAGATCCGGATGAGGGAAGGGGCTGTAAAGCTGCTGGCAGCCTGCTCCCAGCGAGAGCAGGCTCTGGAGGCCACC  
AAGAGCCTGCTAGTGTGCAACAGCCGCATCCTCAGCTACATGGGCGAGCTGCAGCGGCGCAAGGAGGCGCAGGTG  
CTGGGGAAGACAAGCCGGCGGCCTTCTGACAGTGGCCCGCCGCTGAGCGCTCCCCCTGCCGCGGCGGGTCTGC  
ATCTCTGACCTCCGGATTCCACTCATGTGGAAGGACACAGAATATTTCAAGAACAAAGGTGACTTGACCCGCTGG  
GCTGTGTTCTGCTGCTGCAGCTGGGGGAACACATCCAGGACACAGAGATGATCCTAGTGGACAGGACCCCTCACA  
GACATCTCCTTTAGAGCAATGTGCTCTTCGCTGAGGCGGGGCCAGACTTTGAACTGCGGTTAGAGCTGTATGGG  
GCCTGTGTGGAAGAAGAGGGGGCCCTGACTGGCGGCCCCAAGAGGCTTGCCACCAAACCTCAGCAGCTCCCTGGGC  
CGCTCCTCAGGGAGGCGTGTCCGGGCATCGCTGGACAGTGTGGGGGTTAGGGAGCAGTCCCATCTTGCTCCCC  
ACCCAGTTGTTGGTGGTCTCGTTACCACCTCTTGGCTCACACCACACTCACCCCTGGCAGCAGTGAAGATGGA  
TTCCGCACACATGACCTCACCTTGCCAGTCATGAGGAGAACCTTGCTGGCTGCCCCCTTTATGGTAGCGTGTGT  
TGCCGTCTGGCAGCTCAGCCTCTCTGCATGACTCAGCCCACTGCAAGTGGTACCCTCAGGGTGCAGCAAGCTGGG  
GAGATGCAGAACTGGGCACAAGTGCATGGAGTTCTGAAAGGCACAAACCTCTTCTGTTACCGGCAACCTGAGGAT  
GCAGACACTGGGGAAGAGCCGCTGCTTACTATTGCTGTCAACAAGGAGACTCGAGTCCGGGCAGGGGAGCTGGAC  
CAGGCTCTAGGACGGCCCTTACCCTAAGCATCAGTAACCAGTATGGGGATGATGAGGTGACACACACCCCTTCAG  
ACAGAAAGTCGGGAAGCACTGCAGAGCTGGATGGAGGCTCTGTGGCAGCTTTTCTTTGACATGAGCCAATGGAAG  
CAGTGTCTGTGATGAAATCATGAAAATTGAAACTCCTGCTCCCCGAAACCACCCCAAGCACTGGCAAAGCAGGGG  
TCCTTGTACCATGAGATGGCTATTGAGCCGCTGGATGACATCGCAGCGGTGACAGACATCCTGACCCAGCGGGAG  
GGCGCAAGGCTGGAGACACCCCCACCCCTGGCTGGCAATGTTTACAGACCAGCCTGCCCTGCCTAACCCCTGCTCG  
CCTGCCTCAGTGGCCCCAGCCCCAGACTGGACCCACCCCTGCCCTGGGGGAGACCCCGAACCTTTTCCCTGGAT  
GCTGTCCCCCAGACCACTCCCTAGGGCTCGCTCGGTTGCCCCCTCCCACCTCAGCGATCCCCACGGACCAGA  
GGCCTCTGCAGCAAAGGCCAACCTCGCACTTGGCTCCAGTCACCAGTGTGAGAGAGAAAGGTGCTGGCATAGGAT  
CTGCCCAGAAGAGAAAATGACCCATGCGCAGTTGGGCTCTGGATACGGCGCTGTCTATAGCAAGTTGGCCAGTCT  
GGCTCCTGTTCTCTGCTGGACCTGGGGTAGGCTGCAGGGGTGGGCAGAAGCCCTCTTAAATTGTGGTTGCCA  
TGGTACCGAGGGACTCATTCTGGGGCTCGCTGGGACCTCCCTAAACCCTTCCTGGAAGAAAAGTGAACCAACT  
CTGCCCTACCTCCCTGCACTAACCAGCTTTGAGGATGGCACTGAAGAACCCTTGAGCAAACATACCTCCCTTGT  
GACTCCACATCAACCATTAAAGTTATTTAACAGCAAAAAAAAAAAAAA



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**FIGURE 797**

MQDRLHILEDINMLYIRQMALSLEDTELQRKLDHEIRMREGACKLLAACSQREQALEATKSLVCNSRILSYMGE  
LQRRKEAQVLGKTSRRPSDSGPPAERSPCRGVCISDLRIPLMWKDTEYFKNKGDHLRWAVFLLLQLGEHIQDTE  
MILVDRTLTDISFQSNVLF AEAGPDFELRLELYGACVEEEGALTGGPKRLATKLSSSLGRSSGRRVRASLDSAGG  
SGSSPILLPTPVVGPPRYHLLAHTTLTAAVQDGFRTDHLTLASHEENPAWLPLYGSVCCRLAAQPLCMTQPTAS  
GTLRVQQAGEMQNWAVHGV LKGTNLFCYRQPEDADTGEEPLLTIAVNKETRV RAGELDQALGRPFTLSISNQYG  
DDEVTHTLQTESREALQSWMEALWQLFFDMSQWKQCCDEIMKIETPAPRKPPQALAKQGSLYHEMAIEPLDDIAA  
VTDILTQREGARLET PPPWLAMFTDQPALPNPCSPASVAPAPDWITHPLPWGRPRTFSLDAVPPDHSPRARSVAPL  
PPQSPRTRGLCSKGQPRTWLQSPV

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**FIGURE 798**

GACTACGTGGGTCTGGAGCTGACTGCCGTCCTGACACGTCCTAGAGCTGCAAGTCCTGCCAGAGAGCCACCATGA  
CCTCTCAGCCTCTCAGGCTAGCAGAAGAGTATGGCCCAAGTCCTGGGGAGTCTGAACTGGCTGTGAACCCCTTTG  
ATGGGCTTCCCTTCTCTTCCCGCTACTATGAGCTGCTGAAGCAGCGCCAAGCCTTGCCCATCTGGGCTGCTCGCT  
TTACCTTCTTGGAGCAGTTGGAGAGTAACCCCACTGGAGTGGTGTCTGGTGTCTGGGGAGCCTGGTTCTGGCAAGA  
GCACCCAGATCCCTCAGTGGTGTGCAGAGTTTGCCTGGCCAGAGGGTTCAGAAAGGACAGGTTACTGTTACTC  
AGCCCTACCCTCTTGCAGCCCGGGAGCCTGGCTCTGCGGGTTGCTGATGAGATGGACCTGACCCTGGGTGATGAG  
GTTGGATCCAGCATCCCCCAGGAGGACTGCACGGGGCCCAACACCCTGCTCAGGTTCTGCTGGGACAGGCTGCTT  
CTGCAGGAGGTGGCCTCGACCCGAGGCACTGGAGCCTGGGGCGTGCTGGTACTAGATGAGGCTCAGGAGCGGTGCG  
GTGGCATCAGATTCACTCCAGGGGCTACTGCAAGATGCCAGGCTGGAAAACTTCCGGGGGACCTCAGAGTGGTT  
GTGGTTACTGACCCAGCCCTTGAACCTAAGCTCCGAGCTTTCTGGGGCAATCCTCCTATTGTGCATATACCCAGA  
GAGCCTGGTGAGAGACCTTCCCCATCTACTGGGACACCATCCCACTGATCGGGTGGAAGCTGCCTGCCAAGCA  
GTGCTTGAAATTGTGTCGGAAGGAGCTTCCAGGAGATGTGCTAGTGTTCCTGCCCAGTGAGGAGGAAATTTCCCTG  
TGCTGTGAATCCTTGTCCAGGGAGGTAGAGTCCTTGCTTCTCCAAGGGCTTCCACCACGAGTACTGCCCCCTTCA  
CCAGACTGTGGACGAGCCGTTCCAGGCTGTGTATGAGGACATGGATGCCCCGAAAGTTGTGGTCACTCACTGGCTG  
GCTGACTTCTCCTTCTCCCTCCCTTCCATCCAACATGTGCTGACTCAGGACTGGAGCTCCGAAGTGTTTACAAT  
CCTAGGATCCGAGCAGAATTCCAAGTGTGAGGCCAATCAGCAAGTGTGAGGCAGAGGCAAGACGATTGCGAGCA  
AGAGGGTTCCCACCAGGATCCTGCCTCTGCCTGTATCCTAAGTCCTTCTTAGAACTAGAAGCTCCACCATTGCCA  
CAACCCAGGGTGTGTGAGGAGAATCTGAGCTCCCTGGTGTACTACTAAAAAGGAGACAGATTGCAGAGCCAGGG  
GAGTGTCACTTCTTGACCAGCCTGCTCCAGAAGCACTGATGCAAGCCCTGGAAGATTTAGACTATCTGGCAGCC  
CTGGATGATGATGGGGACCTGTGAGATCTGGGTGTCATACTATCAGAATTCCTCTGGCCCCCTGAGCTGGCCAAA  
GCCCTGCTGGCCTCATGCGAGTTTACTGTGTGGACGAGATGCTCACCTGGCTGCCATGCTCACAGCTGCCCCCT  
GGGTTTACCCGTCCTCCACTCAGTGCAGAAGAAGCTGCCCTGCGTCGGGCCCTGGAACACACGGATGGTGACCAC  
AGTTCTCTGATCCAGGTGTATGAAGCCTTTATACAAAGTGGAGCAGATGAGGCTTGGTGCCAGGCTCGAGGTCTG  
AATTGGGCAGCATTGTGCCAAGCCCATAAACTTCGGGGAGAATCCTAGAACTCATGCAACGAATTGAACTTCCC  
TTGTCCCTACCAGCCTTTGGCTCTGAGCAGAATCGCAGAGACCTTCAGAAAGCACTGGTGTGAGAATACTTTCTC  
AAGGTGGCCAGAGACACAGACGGGACTGGAAATTACCTTCTCCTAAGCATGTGGCCCAGCTCTCCTCA  
TACTGCTGCTACCGAAGCCGCAGAGCTCCTGCCAGACCCCCACCATGGGTGCTCTACCACAATTTACCATATCC  
AAAGACAACTGCCTCTCCATTGTTTCTGAGATTCAACCACAGATGCTGGTGGAATTGGCCCCCTCCATACTTCTG  
AGTAACTTGCCTCCCAGTGAGAGCAGAGACCTTCTGAACCAGCTAAGGGAAGGAATGGCAGATTCTACAGCAGGG  
AGCAAAATCATCCTCAGCCCAGGAGTTCAGAGATCCCTGTGTCTGCTGAGTGAACCTGCCTGCCTATGGAATGGAGCT  
GGGTTTCACTCATCACATTAGATTATCCCTCAGGGTGACACCAAGCACCCAGACAGATTTAGAAGCCCAAAGTT  
TAGGGTCAAATGTAAACCTGGAACCTGAGTCCCAAGAAATGGTAGACTGGGAATGGAAAGAATGGGGTAAACCA  
CAGTCTACATAGGGAAGGACTCTTTCCTTAGCCTTCTCTTATTGATTGGAGAGGGACTGACATGCTCCTCATTCT  
CTTAACTTTGCCAAACCCATTCTTGACTCCCTTGATGCTATAAAAGATTTTCTATGATGCCAAAAAAAAAAAA  
AAAAAAAAA

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**FIGURE 799**

MDLTIGHEVGSSIPQEDCTGPNTLLRFCWDRLLLQEVASTRGTGAWGVLVLDQAQERSVASDSLQGLLDARLEK  
LPGDLRVVVVTDPALEPKLRAFWGNPPIVHIPREPGERPSPYWDITPPDRVEAACQAVLELCRKELPGDVLVFL  
PSEEEISLCCESLSREVESLLLQGLPPRVLP LHPDCGRAVQAVYEDMDARKVVVTHWLADFSFSLPSIQHVIDSG  
LELRSVYNPRIRAEFQVLRPISKQAEARRLRARGFPPGSCCLYPKSFLELEAPPLPQPRVCEENLSSLVLLK  
RRQIAEPGECHFLDQPAPEALMQALEDLDYLAALDDDGDLSDLGVLSEFPLAPELAKALLASCEFDVDEMLTL  
AAMLTAAPGFTRPPLSAEEAALRRALEHTDGDHSSLIQVYEAFIQSGADEAWCQARGLNWAALCQAHKLRGELLE  
LMQRIELPLSLPAFGSEQNRRDLQKALVSEYFLKVARDTDGTGNYLLLTHKHVAQLSSYCCYRSRRAPARPPWV  
LYHNFTISKDNCLSIQVSEIQPQMLVELAPPYFLSNLPPSESRDLLNQLREGMADSTAGSKSSSAQEFRDPCVLQ

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**FIGURE 800**

CGAAAATGGCGGCGGCGGCGACGGCCGGGCGCTCCTGAAGCAGCAGTTATGGAGCTTCCCTCAGGGCCGGGGCCG  
GAGCGGCTCTTTGACTCGCACC GGCTTCCGGGTGACTGCTTCCTACTGCTCGTGCTGCTGCTCTACGCGCCAGTC  
GGGTTCTGCCTCCTCGTCCTGCGCCTCTTTCTCGGGATCCACGTCTTCCTGGTCAGCTGCGCGCTGCCAGACAGC  
GTCCTTCGCAGATTCGTAGTGCGGACCATGTGTGCGGTGCTAGGGCTCGTGCGCCCGGCAGGAGGACTCCGGACTC  
CGGGATCACAGTGTGAGGGTCCTCATTTCGAACCATGTGACACCTTTCGACCACAACATAGTCAATTTGCTTACC  
ACCTGTAGCACCCCTCTACTCAATAGTCCCCCAGCTTTGTGTGCTGGTCTCGGGGCTTCATGGAGATGAATGGG  
CGGGGGGAGTTGGTGGAGTCACTCAAGAGATTCTGTGCTTCCACGAGGCTTCCCCCCTCCTCTGCTGCTATTCT  
CCTGAGGAAGAGGCCACCAATGGCCGGGAGGGGCTCCTGCGCTTCAGTTCTGGCCATTTTCTATCCAAGATGTG  
GTACAACCTCTTACCCTGCAAGTTCAGAGACCCCTGGTCTCTGTGACGGTGTGAGATGCCTCCTGGGTCTCAGAA  
CTGCTGTGGTCACTTTTCGTCCCTTTTCACGGTGTATCAAGTAAGGTGGCTTCGTCTCTGTTTCATCGCCAACTAGGG  
GAAGCGAATGAGGAGTTTGCCTCCGTGTACAACAGCTGGTGGCCAAAGGAATTGGGCCAGACAGGGACACGGCTC  
ACTCCAGCTGACAAAGCAGAGCACATGAAGCGACAAAGACACCCCAAGATTGCGCCCCCAGTCAGCCCAGTCTTCT  
TTCCCTCCCTCCCTGGTCTCTCTCTGATGTGCAACTGGCAACTCTGGCTCAGAGAGTCAAGGAAGTTTTGCCC  
CATGTGCCATTGGGTGTCTATCCAGAGAGACCTGGCCAAGACTGGCTGTGTAGACTTGACTATCACTAATCTGCTT  
GAGGGGGCCGTAGCTTTTCATGCCTGAAGACATCACCAAGGGAAGTCAAGTCCCTACCCACAGCCTCTGCCTCCAAG  
TTTCCCAGCTCTGGCCCGGTGACCCCTCAGCCAACAGCCCTAACATTTGCCAAGTCTTCTGGGGCCCGGCAGGAG  
AGCCTGCAGGAGCGCAAGCAAGCACTATATGAATACGCAAGAAGGAGATTACAGAGAGACGAGCCAGGAGGCT  
GACTGAGCTCAAAGGAACAGGATGGCACCCAGAGCCGCAGGACGGAGACTGGGGGCAGCCCTCACCCAACACACA  
ACAGGCTGGATGGGTGGGTGGTAAAAAGGGAAGGATGAGGCTCCCCCAATGTACATTAAATTCATGGTTTTTCAT  
TC

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**FIGURE 801**

CGTGGATCCCGAGAAAGAGGCGCAGGACGAGGAGGCAGAACCCGACTGGCGCGTAGAGCAGCAGCACGAGCAGTA  
GGAAGCAGTCACCCGGAAGCCTGGGGGCGAGAGGCGAAGTGGTCAGGCGCCGAAGGCCGAGAGCACGCGGGGATC  
GGTCTCTTCCCGCCGGGTCTCTTACCGGTGCGAGTCAAAGAGCCGCTCCGGCCCCGGCCCTGAGGGGAAGCTCCAT  
AACTGCTGCTTCAGGAGCGCCCGGCCGTGCGCGCCGCCGCCATTTTCGCGCCCGGCCGAGGGGGCTCTTGGGAAG  
GCGGAGTCTTTGGGCATCCGCCCCGGGTGAGGGGACCCGAAGTCCTGAGGCGCGCCGGAAGGGCTAGCGGTCCCA  
GCATACCCCGCGGCCCTTGGGCCGTCTCACAACCTCGCGTCCGGCGGAGACCACAATTCCCGGCATTTCGTGGGGC  
AGGGAGGAGTCGGCCTCCCGGAATCCTGGTCCCGGCGTGCACTTCTGAAGGACTTCAGGTACCGGCGTGCCCCGC  
GTCCTACTGTCCGCTGCTCGCGTCTGGGTGCCGCTCTGAGTAGGGCGGGCGAGGAGGCAGCCAAGGCGGAGC  
TGATGGCTGCGCCGAGGGCGGGGCGGGGTGCAAGCTGGAGCCTTCGGGCATGGCGGGCTTTGGGGGGCATTCGCT  
GGGGGAGGAGACCCCGTTTGACCCCTGACCTCCGGGCCCTGCTGACGTCAGGAACCTCTGACCCCGGGCCCGAG  
TGACTTATGGGACCCCGAGTCTCTGGGCCCGTTGTCTGTTGGGGTCACTGAACCCCGAGCATGCCTGACGCTG  
GGACCCCGGGTCCCGGGCACAACCTGACTGCGGTGACCCAGATACCAGGACCCGGGAGGCCTCAGAGAACTCTG  
GAACCCGTTGCGCGCGTGGCTGGCGGTGGCGCTGGGGGGGAGTGTGTTGTTGTTGTTGTTGGGGCGGGG  
GTCGGGGTCTCCGGCCGTCTCGCGCCGTCCCTAGCCCGCCGCGCCGCTTCTCCCCGAGTCAGTACAACCTTCA  
TCGAGATGTGGTGGAGAAGACAGCACCTGCCGTGGTCTATATCGAGATCCTGGACCGGCACCCCTTCTTGGGCC  
GCGAGGTCCCTATCTCGAACGGCTCAGGATTCGTGGTGGCTGCCGATGGGCTCATTGTCACCAACGCCCATGTGG  
TGGCTGATCGGCGCAGAGTCCGTGTGAGACTGCTAAGCGGCGACACGTATGAGGCCGTGGTCACAGCTGTGGATC  
CCGTGGCAGACATCGCAACGCTGAGGATTCAGACTAAGGAGCCTCTCCCCACGCTGCCTCTGGGACGCTCAGCTG  
ATGTCCGGCAAGGGGAGTTTGTGTTGCCATGGGAAGTCCCTTTGCACTGCAGAACACGATCACATCCGGCATTG  
TTAGCTCTGCTCAGCGTCCAGCCAGAGACCTGGGACTCCCCCAAACCAATGTGGAATACATTCAAACCTGATGCAG  
CTATTGATTTTGGAACTCTGGAGGTCCCCTGGTTAACCTGGATGGGGAGGTGATTGGAGTGAACACCATGAAGG  
TCACAGCTGGAATCTCCTTTGCCATCCCTTCTGATCGTCTTCGAGAGTTTCTGCATCGTGGGGAAAAAGAAATT  
CCTCCTCCGGAATCAGTGGGTCCAGCGGCGCTACATTGGGGTGATGATGCTGACCCTGAGTCCCGCATCCTTG  
CTGAACTACAGCTTCGAGAACCAAGCTTTCCCGATGTTTCAGCATGGTGTACTCATCCATAAAAGTCATCCTGGGCT  
CCCCTGCACACCGGGCTGGTCTGCGGCCTGGTGATGTGATTTTGCCATTGGGGAGCAGATGGTACAAAATGCTG  
AAGATGTTTATGAAGCTGTTTCGAACCCAATCCCAGTTGGCAGTGCAGATCCGGCGGGGACGAGAAAACCTGACCT  
TATAATGTGACCCCTGAGGTACAGAAATGAATAGATCACCAAGAGTATGAGGCTCCTGCTCTGATTTCTCCTTGC  
CTTTCTGGCTGAGGTCTGAGGGCACCGAGACAGAGGGTTAAATGAACCAGTGGGGGAGGTCCCTCCAACCACC  
AGCACTGACTCCTGGGCTCTGAAGAATCACAGAAACACTTTTTATATAAAATAAAATTATACCTAGCAACATATT  
ATAGTAAAAAATGAGGTGGGAGGGCTGGATCTTTTCCCCACCAAAGGCTAGAGGTAAAGCTGTATCCCCCTAA  
ACTTAGGGGAGATACTGGAGCTGACCATCCTGACCTCCTATTAAAGAAAATGAGCTGCTGAAAAAAAAAAAAAA  
A

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**FIGURE 802**

MAAPRAGRAGWSLRAWRALGGIRWGRRPRLTPDLRALLTSGTSDPRARV TYGTPSLWARLSVGVT EPRACLTSG  
TPGPRAQLTAVTPDTRTREASENSGTRSRAWLAVALGAGGAVLLLLLWGGGRGPPAVLA AVPSPPPASPRSQYNFI  
ADVVEKTAPAVVYIEILDRHPFLGREVPISNGSGFVVAADGLIVTNAHVVADRRRV RVRLLSGDTYEAVVTAVDP  
VADIATLRIQTKEPLPTLPLGRSADVRQGEFVVAMGSPFALQNTITSGIVSSAQR PARDLGLPQTNVEYIQTDA  
IDFGNSGGPLVNL DGEVIGVNTMKVTAGISFAIPSDRLREFLHRGEKKNSSSGISGSQRRYIGVMMLT LSPSILA  
ELQLREPSFPDVQHGVLIHKVILGSPAHRAGLRPGDVILAIGEQMVQNAEDVYEAVRTQSQLAVQIRRGRET LTL  
YVTPEVTE

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**FIGURE 803**

GCAACGCGAGTGGGAGCACCAGGATCTCGGGCTCGGAACGAGACTGCACGGATTGTTTTAAGAAAATGGCAGACA  
AACCAGACATGGGGGAAATCGCCAGCTTCGATAAGGCCAAGCTGAAGAAAACGGAGACGCAGGAGAAGAACACCC  
TGCCGACCAAAGAGACCATTGAGCAGGAGAAGCGGAGTGAAATTTCCTAAGATCCTGGAGGATTTCTACCCCCG  
TCCTCTTCGAGACCCAGTCGTGATGTGGAGGAAGAGCCACCTGCAAGATGGACACGAGCCACAAGCTGCACTGT  
GAACCTGGGCACTCCGCGCCGATGCCACCGGCCTGTGGGTCTCTGAAGGGACCCCCCAATCGGACTGCCAAA  
TTCTCCGTTTGCCCCGGGATATTATAGAAAATTATTTGTATGAATAATGAAAATAAAACACACCTCGTGGCATG  
GCA

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**FIGURE 804**

MADKPDMEIASFDKAKLKKTTETQEKNTLPTKETIEQEKRSSEIS



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**FIGURE 805**

CACCAAATGGCGGATGACGCCGGTGCAGCGGGGGGGCCAGAGCCCTGGTGGCCATGGGATAGGGAACCGCGGTG  
GCTTCCACGGAGGTTTCGGCAGTGGCATCCGGGGCCGGGGTTCGCGGGAGTGGACGGGGCCGTGCCGAGGCCGCGG  
AGCTCGCGGAGGCAAGGCCGAGGATAAGGAGTGGATGCCTGTACCAAGCTGGGCCGCTTGGTCAAGGACATGAA  
GATCAAGTCCCTGGAGGAGATCTATCTCTTCTCCCTGCCATTAAAGGAATCTGAGATCATTGATTTCTTCCTGGG  
GGACTCTCTCAAGGATGAGGTTTTGAAGATTATGCCGGTGCAGAAGCAGACCCGTGCCGGCCAGCGCACCAGGTT  
CAAGGTGACAGGCCGCTGCGGCTCTGTGCTGGTGCGCCTCATCCCTGCACCCAGGGGCACTGGCATCGTCTCCGC  
ACCTGTGCCCAAGAAGCTGCTCATGATGGCTGGTATCGATGACTGCTACACCTCAGCCCGGGGCTGCACTGCCAC  
CCTGGGCAACTTCGCCAAGGCCACCTTTGATGCCATCTCTAAGACCTACAGCTACCTGACCCCGACCTCTGGAA  
GGAGACTGTATTTACCAAGTCTCCCTATCAGGAATTCAGTACCACCTCGTCAAGACCCACACCAGAGTCTCGGT  
GCAGCGGACCCAGGCTTCAGATGTGGCTACAACATAGGGTTTTTATACAAGAAAAATAAAGTGAATTAAGCCTG

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**FIGURE 806**

CGCAGGCTGGAAGGAAGACGAACCTACGAAGCAGAGATCTGAAGACAGCATGTACACAGCCATTCCCCAGAGTGG  
CTCTCCATTCCCAGGCTCAGTGCAGGATCCAGGCCTGCATGTGTGGCGGGTGGAGAAGCTGAAGCCGGTGCCTGT  
GGCGCAAGAGAACCAGGGCGTCTTCTTCTCGGGGGACTCCTACCTAGTGCTGCACAATGGCCCAGAAGAGGTTTC  
CCATCTGCACCTGTGGATAGGCCAGCAGTCATCCCGGGATGAGCAGGGGGCCTGTGCCGTGCTGGCTGTGCACCT  
CAACACGCTGCTGGGAGAGCGGCCTGTGCAGCACCGCGAGGTGCAGGGCAATGAGTCTGACCTCTTCATGAGCTA  
CTTCCACGGGGCCTCAAGTACCAGGAAGGTGGTGTGGAGTCAGCATTTACAAGACCTCCACAGGAGCCCCAGC  
TGCCATCAAGAACTCTACCAGGTGAAGGGGAAGAAGAACATCCGTGCCACCGAGCGGGCACTGAACTGGGACAG  
CTTCAACACTGGGGACTGCTTCATCCTGGACCTGGGCCAGAACATCTTCGCCTGGTGTGGTGGAAAGTCCAACAT  
CCTGGAACGCAACAAGGCGAGGGACCTGGCCCTGGCCATCCGGGACAGTGAGCGACAGGGCAAGGCCCAGGTGGA  
GATTGTCACTGATGGGGAGGAGCCTGCTGAGATGATCCAGGTCCCTGGGCCCCAAGCCTGCTCTGAAGGAGGGCAA  
CCCTGAGGAAGACCTCACAGCTGACAAGGCAAAATGCCAGGCCGAGCTCTGTATAAGGTCTCTGATGCCACTGG  
ACAGATGAACCTGACCAAGGTGGCTGACTCCAGCCCCCTTGCCCTTGAAGTGTGATATCTGATGACTGCTTTGT  
GCTGGACAACGGGCTCTGTGGCAAGATCTATATCTGGAAGGGGCGAAAAGCGAATGAGAAGGAGCGGCAGGCAGC  
CCTGCAGGTGGCCGAGGGCTTCATCTCGCGCATGCAGTACGCCCCGAACACTCAGGTGGAGATTCTGCCTCAGGG  
CCGTGAGAGTCCCATCTTCAAGCAATTTTCAAGGACTGGAAATTGAGGGTGGGCGTCTTCCTGCCCCATGCTCCC  
CTGCCCCCACCACCTGCCTGCTTGCTTCTCTGGCTGCCTGGTCAGTGCAGAGGTGCCCCCTGCAGATGTTCAAT  
AAAGGAGACAAGTGCTTTCCC

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**FIGURE 807**

MYTAIPQSGSPFFGQSVQDPGLHVWRVEKLKPVFVAQENQGVFFSGDSYLVLHNGPEEVSHLHLWIGQQSSRDEQG  
ACAVLAVHLNTLLGERPVQHREVQGNESDLFMSYFPRGLKYQEGGVESAFHKTSTGAPAAIKKLYQVKGKKNIRA  
TERALNWDSEFNTGDCFILDGQNIFAWCGGKSNILERNKARDLALAIRDSERQGAQVEIVTDGEEPAEMIQVLG  
PKPALKEGNPEEDLTADKANAAALYKVSDATGQMNLTQVADSSPFALELLISDDCFVLDNGLCGKIYIWKGRK  
ANEKERQAALQVAEGFISRMQYAPNTQVEILPQGRESPIFKQFFKDWK

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**FIGURE 808**

GGCACGAGGCGCCCGCTGCTACGAGTAGAACGCTGTCCGAGCTTGCGCATTTCGCAGCCGCTGCCGCCCTCGCC  
GCTGCTCCTTCGTAAGGCCACTTCCGCACACCGACACCAACATGAACGGACAGCTCAACGGCTTCCACGAGGCGT  
TCATCGAGGAGGGCACATTCCCTTTTCACCTCAGAGTCGGTCGGGGAAGGCCACCCAGATAAGATTGTGACCAAA  
TCAGTGATGCTGTCCTTGATGCCCACCTTCAGCAGGATCCTGATGCCAAAGTAGCTTGTGAACTGTTGCTAAAA  
CTGGAATGATCCTTCTTGCTGGGGAAATTACATCCAGAGCTGCTGTTGACTACCAGAAAGTGGTTTCGTGAAGCTG  
TTAAACACATTGGATATGATGATTCTTCCAAAGGTTTTGACTACAAGACTTGTAACGTGCTGGTAGCCTTGGAGC  
AACAGTCACCAGATATTGCTCAAGGTGTTTCATCTTGACAGAAATGAAGAAGACATTGGTGCTGGAGACCAGGGCT  
TAATGTTTGGCTATGCCACTGATGAAACTGAGGAGTGATGCCCTTAACCATTTGTCTTGGCACACAAGCTAAATG  
CCAACTGGCAGAACTACGCCGTAATGGCACTTTGCCCTTGTTTACGCCCTGATTCTAAAACTCAAGTTACTGTGC  
AGTATATGCAGGATCGAGGTGCTGTGCTTCCCATCAGAGTCCACACAATTGTTATATCTGTTTCAGCATGATGAAG  
AGGTTTGTCTTGATGAAATGAGGGATGCCCTAAAGGAGAAAGTCATCAAAGCAGTTGTGCCTGCGAAATACCTTG  
ATGAGGATACAATCTACCACCTACAGCCAAGTGGCAGATTTGTTATTGGTGGGCCTCAGGGTGATGCTGGTTTGA  
CTGGACGCAAAATCATTGTGGACACTTATGGCGGTTGGGGTGCTCATGGAGGAGGTGCCTTTTCAGGAAAGGATT  
ATACCAAGGTCGACCGTTTCAGCTGCTTATGCTGCTCGTTGGGTGGCAAAATCCCTTGTTAAAGGAGGTCTGTGCC  
GGAGGGTTCTTGTTTCAGGTCTCTTATGCTATTGGAGTTTCTCATCCATTATCTATCTCCATTTTCCATTATGGTA  
CCTCTCAGAAGAGTGAGAGAGAGCTATTAGAGATTGTGAAGAAGAATTTTCGATCTCCGCCCTGGGGTCATTGTCA  
GGGATCTGGATCTGAAGAAGCCAATTTATCAGAGGACTGCAGCCTATGGCCACTTTGGTAGGGACAGCTTCCCAT  
GGGAAGTGCCCAAAAAGCTTAAATATTGAAAAGTGTTAGCCTTTTTTCCCCAGACTTGTTGGCGTAGGCTACAGAG  
AAGCCTTCAAGCTCTGAGGGAAAGGGCCCTCCTTCCTAAATTTTCTGTCTCTTTTCAGCTCCTGACCAGTTGCA  
GTCACCTCTAGTCAATGACATGAATTTTAGCTTTTGTGGGGGACTGTAAGTTGGGCTTGCTATTCTGTCCCTAGGT  
GTTTTGTTTACCATTATAATGAATTTAGTGAGCATAGGTGATCCATGTAAGTGCCTAGAAACAACACTGTAGTAA  
ATAATGCTTTGAAATTGAACCTTTGTGCCCTATCACCAACGCTCCAAAGTCATAATTGCATTGACTTCCCCAC  
CAGATGCTGAAAATGTCCTTGATGTGCACGTAAAGTACTTGATGTTCCACTTATAGCCTCTGTCTGGCAATGC  
CACAGCCCTGTGAGCATGAATTTGTAATGCTTGAGCTCTATTATGAATGTGAAGCCTTCCCCTTATCCTCCCTG  
TAACCTTGATCCATTTCTAATTATGTAGCTCTTTGTGAGGAGTGTTCCCTATCCAATCAATCTTGATGTAACGC  
AAGTTCCAGTTGGAGCTCCAGCCTGACATCAAAAAAGGCAGTTACCATTAAACCATCTCCCTGGTGCTTATGCT  
CTTAATTGCCACCTCTAACAGCACCAAAATCAAAATCTCTCCACTTTTCAGCTGTCTTTTGGAGGACGTACGTAATA  
AGGTTTTAATTTAGTAAACCAATCCTATGCATGGTTTCAGCACTAGCCAAACCTCACCAACTCCTAGTTCTAGAA  
AAACAGGCACCTTGGCAGCCTTGATGTGCATACAGAGAAGTCACAGGGCAGTACCTGAGGGTCTGTAGGTTGCAC  
ACTTTGGTACCAGATAACTTTTTTTTTTCTTTATAAGAAAGCCTGAGTACTCCACACTGCACAATAACTCCTCCC  
AGGGTTTTAACTTTGTTTTATTTTCAAAACCAGGTCCAATGAGCTTTCTGAACAGCTGGTGATGCTACAGAGAAA  
CCAGCTTCCTTCAGAGAGCAGTGCTTTTGGCGGGGAGGAGGAAATCCCTTCATACTTGAACGTTTTCTAATTGCT  
TATTTATTGTATTCTGGGGTATGGCGTAAGTACAGAGAAGCCATCACCTCAGATGGCAGCTTTTAAAAGATTTT  
TTTTTTTCTCTCAACACCATGATTCTTTAACAACATGTTTCCAGCATTTCCAGGTAGGCCAAGGTGTCCTACAG  
AAAAACCTTGGGTTAGACCTACAGGGGGTCTGGCTGGTGTTAACAGAAGGGAGGGCAGAGCTGGTGCGGCTGGCC  
ATGGAGAAAGCTGACTTGGCTGGTGTTACAGAGAAGCCAGCTTGTTTACATGCTTATTCATGACTGCTTGCC  
CTAAGCAGAAAGTGCTTTTCAGGATCTATTTTGGAGGTTTATTACGTATGTCTGGTTCTCAATTCACAGTTT  
AATGAAGATCTAAATAAAATGCTAGGTTCTACCTTAAAAAAAAAAAAAAAAAAAA

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**FIGURE 809**

MNGQLNGFHEAFIEEGTFLFTSES VGE GHPDKICDQISDAVLDAHLQQDPDAKVACETVAKTGMILLAGEITSRA  
AVDYQKVVREAVKHIGYDDSSKGF DYKTCNVLVALEQQSPDIAQGVHLDRNEEDIGAGDQGLMFGYATDETEECM  
PLTIVLAHKLNAKLAELRRNGTLPWLRPDSKTQVTVQYMQDRGAVLP IRVHTIVISVQHDEEVCLDEMRDALKEK  
VIKAVVPAKYLDEDTIYHLQPSGRFVIGGPQGDAGLTGRKIIVD TYGGWGAHGGGAFSGKD YTKVDRSAAYAARW  
VAKSLVKGGLCRRVLVQVSYAIGVSHPLSISIFHYGTSQKSERELLEIVKKNFDLRPGVIVRDLDLKKPIYQRTA  
AYGHFGRDSFPWEVPPKKLKY

[illegible]

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**FIGURE 811**

MKHIPVLEDGPWKTVKVKELNGLKKLKRKGKEPARRANGYKTFRDLLEAPEPRAVATNGLRDRTHRLQPVPVPVP  
VPVPVAPAVPPRGGTDTAGERGGSSRAPEVSDARKRCFALGAVGPGLETPPPPPPPAPQSQAPGGPEAQPFREPGP  
RPRILLCAPPARPAPSAPPAPPAPPESTVRPAPPTRPGESSYSSISHVIYNNHQDSSASPRKRPGEATAASSEIK  
ALQQTRRLANARERTRVHTISAAFEALRKQVPCYSYGQKLSKLAILRIACNYILSLARLADLDYSADHSNLSFS  
ECVQRCTRITLQAEGRAKKRKE

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**FIGURE 812**

GGCACGAGGGATGGCGGTTGTATCTGCTGTTTCGCTGGCTGGGCCTCCGCAGCAGGCTTGGCCAGCCGCTGACGGG  
TCGGCGGGCGGGTTTTGTGTGAACAGGCACGCAGCTGCAGATTTTATTCTGGTAGTGCAACCCTCTCAAAGGTTGA  
AGGAACTGATGTAACAGGGATTGAAGAAGTAGTAATTCCAAAAAAGAAAAGTTGGGATAAAGTAGCCGTTCTTCA  
GGCACTTGCATCCACAGTAAACAGGGATACCACAGCTGTGCCTTATGTGTTTCAAGATGATCCTTACCTTATGCC  
AGCATCATCTTTGGAATCTCGTTTCAATTTTACTGGCAAAGAAATCCGGGGAGAATGTGGCCAAGTTTATTATTAA  
TTCATACCCCAAATATTTTCAGAAGGACATAGCTGAACCTCATATACCGTGTTTAAATGCCTGAGTACTTTGAACC  
TCAGATCAAAGACATAAGTGAAGCCGCCCTGAAGGAACGAATTGAGCTCAGAAAAGTCAAAGCCTCTGTGGACAT  
GTTTGATCAGCTTTTGCAAGCAGGAACCACTGTGTCTCTTGAAACAACAATAGTCTCTTGGATTTATTGTGTTA  
CTATGGTGACCAGGAGCCCTCAACTGATTACCATTTTCAACAACTGGACAGTCAGAAGCATTGGAAGAGGAAAA  
TGATGAGACATCTAGGAGGAAAGCTGGTCATCAGTTTGGAGTTACATGGCGAGCAAAAAACAACGCTGAGAGAAT  
CTTTTCTCTAATGCCAGAGAAAAATGAACATTCCTATTGCACAATGATCCGAGGAATGGTGAAGCACCGAGCTTA  
TGAGCAGGCATTAACTTGTACACTGAGTTACTAAACAACAGACTCCATGCTGATGTATACACATTTAATGCATT  
GATTGAAGCAACAGTATGTGCGATAAATGAGAAATTTGAGGAAAAATGGAGTAAATACTGGAGCTGCTAAGACA  
CATGGTTCACAGAAGGTGAAACCAATCTTCAGACTTTTAAATACCATTCTGAAATGTCTCCGAAGATTTTCATGT  
GTTTGCAAGATCGCCAGCCTTACAGGTTTTACGTGAAATGAAAGCCATTGGAATAGAACCCTCGCTTGCAACATA  
TCACCATATTATTGCGCTGTTTGATCAACCTGGAGACCCCTTAAAGAGATCATCCTTCATCATTTATGATATAAT  
GAATGAATTAATGGGAAAGAGATTTTCTCCAAAGGACCCGGATGATGATAAGTTTTTTTCAGTCAGCCATGAGCAT  
ATGCTCATCTCTCAGAGATCTAGAACTTGCTACCAAGTACATGGCCTTTTAAAAACCGGAGACAACCTGGAAATT  
CATTGGACCTGATCAACATCGTAATTTCTATTATTCCAAGTTCTTCGATTTGATTTGTCTAATGGAACAAATTGA  
TGTTACCTTGAAGTGGTATGAGGACCTGATACCTTCAGCCTACTTTCCCACTCCCAAACAATGATACATCTTCT  
CCAAGCATTGGATGTGGCCAATCGGCTAGAAGTGATTCTTAAATTTGGAAAGATAGTAAAGAATATGGTTCATAC  
TTTCCGCAGTGACCTGAGAGAAAGAGATCCTGATGCTCATGGCAAGGGACAAGCACCCACCAGAGCTTCAGGTGGC  
ATTTGCTGACTGTGCTGCTGATATCAAATCTGCGTATGAAAGCCAACCCATCAGACAGACTGCTCAGGATTGGCC  
AGCCACCTCTCTCAACTGTATAGCTATCCTCTTTTAAAGGGCTGGGAGAACTCAGGAAGCCTGGAAAATGTTGGG  
GCTTTTCAGGAAGCATAATAAGATTCCTAGAAGTGAGTTGCTGAATGAGCTTATGGACAGTGCAAAAGTGTCTAA  
CAGCCCTTCCCAGGCCATTGAAGTAGTAGAGCTGGCAAGTGCCTTCAGCTTACCTATTTGTGAGGGCCTCACCCA  
GAGAGTAATGAGTGATTTTGCAATCAACCAGGAACAAAAGGAAGCCCTAAGTAATCTAACTGCATTGACCAGTGA  
CAGTGATACTGACAGCAGCAGTGACAGCGACAGTGACACCAGTGAAGGCAAATGAAAGTGGAGATTGAGGAGCAG  
CAATGGTCTCACCATAGCTGCTGGAATCACACCTGAGAACTGAGATATACCAATATTTAACATTGTTACAAAGAA  
GAAAAGATACAGATTTGGTGAATTTGTTACTGTGAGGTACAGTCAGTACACAGCTGACTTATGTAGATTTAAGCT  
GCTAATATGCTACTTAACCATCTATTAATGCACCATTAAGGCTTAGCATTTAAGTAGCAACATTGCGGTTTTCA  
GACACATGGTGAGGTCCATGGCTCTTGTTCATCAGGATAAGCCTGCACACCTAGAGTGTGCGGTGAGCTGACCTCAC  
GATGCTGTCCTCGTGCGATTGCCCTCTCCTGCTGCTGGACTTCTGCCTTTGTTGGCCTGATGTGCTGCTGTGATG  
CTGGTCCTTCATCTTAGGTGTTTCATGCAGTTCTAACACAGTTGGGGTTGGGTCAATAGTTTCCCAATTCAGGAT  
ATTTGATGTGAGAAATAACGCATCTTAGGAATGACTAAACAAGATAATGGCAGTTTAGGCTGCACAACCTGGTAA  
AATGACTGTAGATAAATGTTGTAATTAGTGACACGTTTGTATTTTTGTTAATATAGCCGCTGCCATAGTTTTCT  
AACTTGAACAGCCAAAAAAAAAAAAAAAAAAAAAAAAA



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**FIGURE 813**

MVAQKVKNLQTFNTILKCLRRFHV FARSPALQVLREMKAIGIEPSLATYHHIIRLFDQPGDPLKRSSFIIYDIM  
NELMGKRFSPKDPDDDKFFQSAMSISSLRDLELAYQVHGLLKTGDNWKFIGPDQHRNFYYSKFFDLICLMEQID  
VTLKWYEDLIPSAYFPHSQTMIHLLQALDVANRLEVIPKIWKDSKEYGHTFRSDLREEILMLMARDKHPPPELQVA  
FADCAADIKSAYESQPIRQTAQDWPATSLNCIAILFLRAGRTQEAWKMLGLFRKHNKIPRSELLNELMDSAKVSN  
SPSQAIEVVVELASAFSLPICEGLTQVRMSDFAINQEKEALSNLTALTSDDSDSDSDTSEGG

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**FIGURE 814**

ACGCGGGCACGCACACACGGAAGCACGCCTCCACTTAACTCGCGCCGCCGCGGCAGCTCGAGTCCACCAGCAGCG  
CCGTCCGCTTGACCGAGATGCTGCGGGCCTGTCAGTTATCGGGTGTGACCGCCGCCGCCAGAGTTGTCTCTGTG  
GGAAGTTTGTCTCCGTCCATTGCGACCATGCCGCAGATACTCTACTTCAGGCAGCTCTGGGTTGACTACTGGCA  
AAATTGCTGGAGCTGGCCTTTTGTGTTGTTGGTGGAGGTATTGGTGGCACTATCCTATATGCCAAATGGGATTCCC  
ATTTCCGGGAAAGTGTAGAGAAAACCATACCTTACTCAGACAAACTCTTCGAGATGGTTCTTGGTCCTGCAGCTT  
ATAATGTTCCATTGCCAAAGAAATCGATTAGTTCGGGTCCACTAAAAATCTCTAGTGTATCAGAAGTAATGAAAG  
AATCTAAACAGTCTGCCTCACAACTCCAAAAACAAAAGGGAGATACTCCAGCTTCAGCAACAGCACCTACAGAAG  
CGGCTCAAATTATTTCTGCAGCAGGTGATACCCTGTCTGGTCCCAGCCCCTGCAGTTCAGCCTGAGGAATCTTTAA  
AAACTGATCACCTGAAATTGGTGAAGGAAAACCCACACCTGCACTTTCAGAAGAAGCATCCTCATCTTCTATAA  
GGGAGCGACCACTGAAGAAGTTGCAGCTCGCCTTGCACAACAGGAAAAACAAGAACAAGTTAAATTGAGTCTC  
TAGCCAAGAGCTTAGAAGATGCTCTGAGGCAAACCTGCAAGTGTCACTCTGCAGGCTATTGCAGCTCAGAATGCTG  
CGGTCCAGGCTGTCAATGCACACTCCAACATATTGAAAGCCGCCATGGACAATTCTGAGATTGCAGGCGAGAAGA  
AATCTGCTCAGTGGCGCACAGTGGAGGGTGCATTGAAGGAACGCAGAAAGGCAGTAGATGAAGCTGCCGATGCCC  
TTCTCAAAGCCAAAGAAGAGTTAGAGAAGATGAAAAGTGTGATTGAAAATGCAAAGAAAAAGAGGTTGCTGGGG  
CCAAGCCTCATATAACTGCTGCAGAGGGTAACTTCACAACATGATAGTTGATCTGGATAATGTGGTCAAAAAGG  
TCCAAGCAGCTCAGTCTGAGGCTAAGGTTGTATCTCAGTATCATGAGCTGGTGGTCCAAGCTCGGGATGACTTTA  
AACGAGAGCTGGACAGTATTACTCCAGAAGTCCTTCTGGATGGAAAGGAATGAGTGTTCAGACTTAGCTGACA  
AGCTCTCTACTGATGATCTGAACTCCCTCATTGCTCATGCACATCGTCTGATTGATCAGCTGAACAGAGAGCTGG  
CAGAACAGAAGGCCACCGAAAAGCAGCACATCACGTTAGCCTTGGAGAAACAAAAGCTGGAAGAAAAGCGGGCAT  
TTGACTCTGCAGTAGCAAAAGCATTAGAACATCACAGAAAGTGAATACAGGCTGAACAGGACAGAAAGATAGAAG  
AAGTCAGAGATGCCATGGAAAATGAAATGAGAACCCAGCTTCGCCGACAGGCAGCTGCCCACACTGATCACTTGC  
GAGATGTCCTTAGGGTACAAGAACAGGAATTGAAGTCTGAATTTGAGCAGAACCTGTCTGAGAACTCTCTGAAC  
AAGAATTACAATTTTCGTCGTCTCAGTCAAGAGCAAGTTGACAACCTTTACTCTGGATATAAATACTGCCTATGCCA  
GACTCAGAGGAATCGAACAGGCTGTTTCAGAGCCATGCAGTTGCTGAAGAGGAAGCCAGAAAAGCCCCACCAACTCT  
GGCTTTCAGTGGAGGCATTAAAGTACAGCATGAAGACCTCATCTGCAGAAACACCTACTATCCCGCTGGGTAGTG  
CAGTTGAGGCCATCAAAGCCAAGTCTGATAATGAATTCACCCAAGCTTTAACCGCAGCTATCCCTCCAGAGT  
CCCTGACCCGTGGGGTGACAGTGAAGAGACCTTAGAGCCGTTTCTATGCTGTTCAAAAAGTGGCCCGAAGGG  
TAGCAATGATTGATGAAACCAGAAATAGCTTGTACCAGTACTTCCTCTCCTACCTACAGTCCCTGCTCCTATTCC  
CACCTCAGCAACTGAAGCCGCCCCCAGAGCTCTGCCCTGAGGATATAAACACATTTAAATTACTGTATATGCTT  
CCTATTGCATTGAGCATGGTGATCTGGAGCTAGCAGCAAAGTTTGTCAATCAGCTGAAGGGGGAATCCAGACGAG  
TGGCACAGGACTGGCTGAAGGAAGCCCGAATGACCCTAGAAACGAAACAGATAGTGAAATCCTGACAGCATATG  
CCAGCGCCGTAGGAATAGGAACCACTCAGGTGCAGCCAGAGTGAAGGTTTAGGAAGATTTTCATAAAGTCATATTT  
CATGTCAAAGGAAATCAGCAGTGATAGATGAAGGGTTCGCAGCGAGAGTCCCGACTTGTCTAGAAATGAGCAGG  
TTTACAAGTACTGTTCTAAATGTTAACACCTGTTGCATTTATATTCTTTCCATTTGCTATCATGTGAGTGAACGC  
CAGGAGTGCTTTCTTTGCAACTTGTGTAACATTTTCTGTTTTTTCAGGTTTTACTGATGAGGCTTGTGAGGCCAA  
TCAAAATAATGTTTGTGATCTCTACTACTGTTGATTTTGCCCTCGGAGCAAACCTGAATAAAGCAACAAGATG

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**FIGURE 815**

MLRACQLSGVTAAQSCLCGKFVLRPLRPCRRYSTSGSSGLTTGKIAGAGLLFVGGGIGGTILYAKWDSHFRESV  
EKTIPYSDKLFEMVLGPAAYNVPLPKKSIQSGPLKISSVSEVMKESQSASQLQKQKGDTPASATAPTEAAQIIS  
AAGDTLSVPAPAVQPEESLKTDPHEIGEGKPTPALSEEASSSSIRERPPEEVAARLAQQEKQEQVKIESLAKSLE  
DALRQTASVTLQAIQAQNAAVQAVNAHSNILKAAMDNSEIAGEKKSAQWRVTEGALKERRKAVDEAADALLKAKE  
ELEKMKSVIENAKKKEVAGAKPHITAAEGKLHNMIVDLDNVVKVQAAQSEAKVVSQYHELVVQARDDFKRELD  
ITPEVLPGWKGMVSDLDLADKLSTDDLNSLIAHAHRRIDQLNRELAEQKATEKHITLAEKQKLEEKRAFDSAVA  
KALEHHRSEIQAEQDRKIEEVRDAMENEMRTQLRRQAAHTDHLRDVLRVQEQELKSEFEQNLSEKLSEQELQFR  
RLSQEQVDNFTLDINTAYARLRGIEQAVQSHAVAEAEARKAHQLWLSVEALKYSMTSSAETPTIPLGSAVEAIK  
ANCSDFEFTQALTAIIPPELSTRGVYSEETLRARFYAVQKLARRVAMIDETRNSLYQYFLSYLQSLLLFPPQQLK  
PPPELCPEDINTFKLLSYASYCIEHGDLELAAKFVNQLKGESRRVAQDWLKEARMTLETQIVEILTAYASAVGI  
GTTQVQPE

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**FIGURE 816**

TAGTGCCGCCGCTCCCTACTCTGGGGGTGGGACTACCTCCTTTTCCGCGGGCCCCGCCAGGCGGCTGCCCCGTG  
ACCTGCCTGGGCGCGGGGAAGTGAAGCCGGAAGGGGCAAGACGGGTTCAAGTTCGTTCATGGGGCTGTTTGAAAG  
ACCCAGGAGAAGCCGCCCAAAGAACTGGTCAATGAGTGGTCATTGAAGATAAGAAAGGAAATGAGAGTTGTTGAC  
AGGCAATAAGGGATATCCAAAGAGAAGAAGAAAAAGTGAACGATCTGTGAAAGATGCTGCCAAGAAGGGCCAG  
AAGGATGTCTGCATAGTTCTGGCCAAGGAGATGATCAGGTCAAGGAAGGCTGTGAGCAAGCTGTATGCATCCAAA  
GCACACATGAACTCAGTGCTCATGGGGATGAAGAACCAGCTCGCGGTCTTGCGAGTGGCTGGTTCCCTGCAGAAG  
AGCACAGAAGTGATGAAGGCCATGCAAAGTCTTGTGAAGATTCCAGAGATTCAAGGCCACCATGAGGGAGTTGTCC  
AAAGAAATGATGAAGGCTGGGATCATAGAGGAGATGTTAGAGGACACTTTTGAAAGCATGGACGATCAGGAAGAA  
ATGGAGGAAGAAGCAGAAATGGAAATTGACAGAATTCTCTTTGAAATTACAGCAGGGGCTTGGGCAAGCACCC  
AGTAAAGTGACTGATGCCCTTCCAGAGCCAGAACCTCCAGGAGCGATGGCTGCCTCAGAGGATGAGGAGGAGGAG  
GAAGAGGCTCTGGAGGCCATGCAGTCCCGGTGGCCACACTCCGCAGCTAGGGGCTGCCTACCCCGCTGGGTGTG  
CACACACTCCTCTCAAGAGCTGCCATTTTATGTGTCTCTTGCACTACACCTCTGTTGTGAGGACTACCATTTTGG  
AGAAGGTTCTGTTTGTCTCTTTTCACTCTCTGCCAGGTTTGGGATCGCAAAGGGATTGTTCTTATAAAAGTGG  
CATAAATAAATGCATCATTTTTAGGAGTATAGACAGATATATCTTATTGTGGGGAGGGGAAAGAAATCCATCTGC  
TCATGAAGCACTTCTGAAAATATAGGTGATTGCCCTGAATGTGAAGACTCTACTTTTGTCTATAAAACACTATAT  
AAATGAATTTTAATAAATTTTTGCTTTAGCACTTGGCCCCATTGTAGATTGCCCTGTGCAGTAACTTTCAAGGT  
GTCGGCTGCCCCAGATTGCTTCACTTTGCTGGGTGTGGAAAGAGTTGCTATGGCCAGGCATATGGGATTGGAAGC  
TCAGCAGAAGTGACTTCTGCTCTGTGGTTGCTGCTCCCCGGCTTTCACAGACATGGTATGGCAGCCATTCTTTTA  
TCTATTTAAACCAAGAGGATGCTGGGGAATTGTGCTGCTTGTCTGTTGGCTGGTGGCTGCATTATGTCTGGGGT  
GTGCATGTGGGTCTATTTAGAGCTTCTGTCCCTTCTTCCATTGCAAGTTGCACCCAGATGAGACAGCTGTAGT  
ACTAGGCTCTCTTTCACCTCTCATTGCCCTGTCCCTGCTTCGAGCTGGTTGTCTTGTGCGTGGGACATGGGCCTTCC  
TATCTGTGTTTTCTCAAAGTCAGGAGCTGACCAGGAGCACACTAAGGTGTGGTTCATGCATCATAACCAACATTCA  
CTCATCTGGGACATTCTTAAGATACATTTATAAATCATTTTCAGCAGTAGTACTTTGTATGTGTTGAGAGTTTACA  
GAGCTCTTTGACATACGCGATCTTAGTCTTTACAAATAAGGAAAACAGCTCAGTTTGGGAAGTATCAGAGATGGG  
ATTCAAACCCAGATCCTCTGGTCCAAGTTGTATGTGCACTGAATAATCAGGCAGGAAAAAGGCCAGCCACTGT  
CTCACAGATTGTTTTTTGTATATTGTAGCAAAATCCTGAAACAATGGGGTCTTCCAGTCTCATCATAAAAATG  
GCAATCTTGGCTGGGTGCGGTGGTTTCATGCCTATAATCCCAGTGCTTTACAAGGCTGAGGCAGGAGGCTCTCTTG  
AGAATAGGAGTTCAAGACCAGCCTGGGCAACATAGCAAGATCCTGTCTCTCAAAAAAAAAAAAAAAAAAAAAA  
AAAATTTCATTTTTGTAGTCCAGAGGACCTCCTATTACTCTTGATTTTCATCTTCAGAGTGTAGTTAAAAAATTAT  
TTTAAATAATTATTTTTTTAAATCAGTTGTAGGTTACAGCAAAAGTGGACAAAAAGAAATTTCTCATATATCCC  
CTGCCCTCACACATGCATAGCCTCCCACTATCAGTATCCACACCAGAGTGGTACATTTGTTACAATCAATA  
AACCTCCATTGACACATCATTATCACCCAAAGTCCATAGTTTACATGAAGATTCACTCTGGTGTGTACATTGTA  
TGGGCTTAGACAAATGTATGATGATATCTACAATTATAGAATCATACAGAATAGTTTCACTGCCCTAAAATTCT  
CTATGCTTACCTGTTTCATCCCTTTCTTCCCTAATCCCCTGGCAACCACTTTAAAAAAAAAATTAGGTTCAAGGG  
GTACATGTGCAGGTAACTCGTGACAAGGGGGTTTGTATACAGATTATTTAGTGACCCAGGTACTAAGCCTAGT  
ACCCAATAGTTACTTTTTCTGGTCTGTCCCTTTTCCACCCTCCACCCTCAGGTAGGCCCCAGTATGTTATTCCT  
TTGTGTCCATGTTATTTCACTCCCACTTGTGAGAACATGGAATATTTGGTTTCTGTTCCATGTTAGTTTGTTA  
AGGATAATGGCCTCCAGCCCCATCCATGTTCTGCAAAGGACATGATCTTTCTTTGGCAACCACTTTTTACTGTC  
GCCATAGTTCTTCTTTTCTAGAATGTCATATTGGAATCATATAGTATGTAGCCTTTTCAGACTGGCTTCTTTCA  
CTTAATAATATGCAATTAAGGTTCTCCATGTCAATTCATGGCTTAATAGTGCATTTATTTTAGCACTGAATAA  
TACTCCATTGTCTAGATGAATAGTTTATCCATTACCTATTGAAAGACTTCTGGTGGTTTCCAAGTTTGGCAA  
TTATGAATAAAGCTGTTGTAAACATCTTTGTGCAGGTTTTCTATGGGCATGTTTTTAATTCATTGAATAAATA  
CCAAGAGCTTCAGTGCTGGATCATA

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**FIGURE 817**

CAGGACACAGCATGGACATGAGGGTCCCCGCTCAGCTCCTGGGGCTCCTGCTGCTCTGGCTCCCAGGTGCCAAAT  
GTGACATCCAGATGACCCAGTCTCCTTCCACCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCGGG  
CCAGTCAGAGTATTAGTAGCTGGTTGGCCTGGTATCAGCAGAAAACCAGGGAAAGCCCCTAAGCTCCTGATCTATA  
AGGCGTCTAGTTTAGAAAGTGGGGTCCCATCAAGGTTTCAGCGGCAGTGGATCTGGGACAGAATTCAGTCTCACCA  
TCAGCAGCCTGCAGCCTGATGATTTTGCAACTTATTACTGCCAACAGTATAATAGTTATTCTCCACATGGACGT  
TCGGCCAAGGGACCAAGGTGGAAATCAAACGAACTGTGGCTGCACCATCTGTCTTCATCTTCCCGCCATCTGATG  
AGCAGTTGAAATCTGGAAGTGCCTCTGTTGTGTGCCTGCTGAATAACTTCTATCCCAGAGAGGCCAAAGTACAGT  
GGAAGGTGGATAACGCCCTCCAATCGGGTAACTCCCAGGAGAGTGTACAGAGCAGGACAGCAAGGACAGCACCT  
ACAGCCTCAGCAGCACCTTGACGCTGAGCAAAGCAGACTACGAGAAACACAAAGTCTACGCCTGCGAAGTCACCC  
ATCAGGGCCTGAGCTCGCCCGTCACAAAGAGCTTCAACAGGGGAGAGTGTTAGAGGGAGAAGTCCCCCACCTGC  
TCCTCAGTTCAGCCTGACCCCTCCCATCCTTTGGCCTCTGACCCTTTTCCACAGGGGACCTACCC

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**FIGURE 818**

GCGGCCGTTACGGCGCTCAGGCGTCTCGACGCGCGGATTTAAAACCAGCTCAGGAGACGCCAAGGAAAGATGGG  
ACCTCCCGGCCAGCACTGCCAGCCACAATGAATAACTCTTCTTCAGAGACGCGAGGACACCCCCACAGTGCCTC  
CTCTCCTTCAGAGCGTGTGTTCCCGATGCCCCTGCCAGGAAGGCGCCTCTCAATATTCCTGGCACCCCAGTCCT  
CGAAGACTTTCCTCAGAATGACGATGAGAAGGAGCGGCTGCAGCGGAGGCGCTCGAGGGTCTTTGATCTGCAGTT  
CAGCACTGACTCAGCTCGCTTATTGGCCTCCCCCTCCAGCAGGAGTATTGACATTTAGCTACTATCCCCAAGTT  
TACAAACACGCAGATTACGGAACATTACTCCACCTGTATCAAAGTGTCCACTGAAAATAAAATCACTACCAAGAA  
TGCTTTTGGTTTGCAGTTGATTGATTTTATGTCTAGAGATTCTTAAACAGAAAGACACCGAACCAACCAACTTTAA  
AGTGGCTGCGGGTACTCTGGATGCCAGCACCAAGATCTATGCTGTGCGCGTGGATGCCGTCCATGCCGATGTATA  
CAGAGTCCTTGGGGGGCTGGGCAAAGATGCACCGTCTTTGGAAGAAGTAGAAGGCCATGTTGCTGATGGAAGTGC  
TACTGAAATGGGAACAACCAAAAAGGCTGTAAAGCCAAAGAAGAAGCACTTACACAGAACTATTGAGCAGAACAT  
AAACAACCTCAATGTCTCCGAAGCAGATCGGAAGTGTGAGATTGATCCCATGTTTCAGAAGACAGCAGCCTCATT  
TGATGAGTGCAGCACAGCAGGGGTGTTTCTGTCCACTCTCCACTGCCAGGACTACAGAAAGTGAAGTGTGTTTCC  
CTCTGATGTCCAGACTCTCTCCACGGGAGAACCTCTCGAGTTGCCAGAGTTAGGTTGTGTAGAAATGACAGATT  
AAAAGCGCCCTTGACAGAGTGTGCAGAAGATCGCCAGATCTGCCCTTCCCTGGCCGGGTTCAGTTTACACAGTG  
GGACAGTGAAACACATAATGAGTCTGTGTGCGCCCTGGTAGACAAGTTTAAGAAGAATGACCAGGTATTTGACAT  
CAATGCTGAAGTTGACGAGAGTGAAGTGTGGAGACTTCCCGATGGGTCCCTGGGGGATGACTTTGATGCCAACGA  
TGAACCTGACCACACCGCAGTTGGGGATCATGAAGAGTTCAGGAGCTGGAAGGAGCCCTGCCAGGTTTCAGAGCTG  
CCAGGAAGAAATGATTTCCCTTGGGGATGGAGACATCAGGACCATGTGCCCCCTTCTGTCTATGAAACCTGGAGA  
ATATTCTTATTTAGTCTCGGACCATGTGATGTGGGCTGGCCCGGATCACTGGCGCTTTAGGCCTCGACGCAA  
ACAAGATGCTCCTTCCCAATCAGAAAAAAGAGTACAAAAAAGATTTTGAAATTGACTTTGAAGATGA  
TATTGACTTTGATGTATATTTTAGAAAAACAAAGGCTGCTACTATTCTGACCAAGTCCACTTTGGAGAACCAGAA  
TTGGAGAGCTACCACCCTTCTACAGATTTCAACTACAATGTTGACACTCTGGTCCAGCTTCACCTCAAACCAGG  
CACCAGGTTACTTAAGATGGCCCAGGGCCATAGGGTAGAGACTGAGCATTATGAAGAAATTGAAGACTATGATTA  
CAACAACCTAACGACACCTCCAACCTTTTGCCCTGGATTACAGGCTGCTGACAGTGAAGATTGATGA  
CTTATTTGTGGGACCTGTTGGGAACCTCTGACCTCTCACCTTATCCTTGCCATCCACCTAAGACAGCACAAACAGAA  
TGGTGACACTCCAGAAGCCCAAGGATTAGACATCACAACATATGGGGAGTCAAACCTGGTAGCTGAGCCTCAGAA  
GGTAAATAAAATTGAAATTCAGTATGCCAAGACTGCCAAAAAGATGGACATGAAGAACTGAAGCAGAGCATGTG  
GAGTCTGCTGACAGCGCTCTCCGGAAAGGAGGCAGATGCAGAGGCAAACACAGGGAAGCTGGAAAAGAAGCGGC  
CCTGGCAGAAGTGGCTGACGAGAAGATGCTTAGCGGGCTCACGAAGGACCTGCAGAGGAGCCTGCCCCCTGTCAT  
GGCTCAGAACCTCTCCATACCTCTGGCTTTTGCTGTCTCCTACATTTAGCCAATGAAAAGAATCTAAACTGGA  
AGGAACAGAGGACCTCTCTGATGTTCTTGTGAGGCAAGGAGATTGAGTTCACTATGGAGAAGTCAGCAGCAGGAG  
GCCCATCCCTTACTCAGTTGCCGGGACATCCCCAGTCTCGGGGGAAGAAGATGCCATGGGCTTATACCCAGGCTG  
TAGCCAACCTACCAACGTGCCTGTTTGTGTTGTGCTCTTCTCTCCATCATAGTCTGGGTGCCAGCGCCCTG  
AAGCTCCGTGCTCAACTGATTAACTTTACTGCCCTATGGTGACCATCTAGGAGAGGGGAGGGCAGAGGGGGTGA  
GGGTACTATTCTGGATTGAGAAAACCTATATCCATTCTTTATATCAATGTATAGTTTTAGTCTCCTAAATTGATC  
TGTTATTTTCCAACTATTCTCTGTAGAAAAATTTCCAGTGGGCACCTAATGGTGCCCTTGAAGAATTCCTAA  
TCCATGTACATAAAATACATCATATGTACACTTATAAATGTATATAGAATGCTCAAAAAATAAAATCTTAATAAT  
AGAAGTGGCAAAATA

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**FIGURE 819**

MGPPGPALPATMNNSSSETRGHPHSASSPSERVFPMPPLPRKAPLNIPGTPVLEDFPQNDDEKERLQRRRSRVFDL  
QFSTDSPRLASPSSRSIDISATIPKFTNTQITEHYSTCIKLSTENKITTKNAFGLHLIDFMSEILKQKDTEPTN  
FKVAAGTLDASTKIYAVRVDHAVHADVYRVLGGLGKDAPSLEEVEGHVADGSATEMGTTKAVKPKKKHLHRTIEQ  
NINNINVSEADRKCEIDPMFQKTAASFDECSTAGVFLSTLHCQDYRSELLFPQVQTLSTGEPELELPELGCVEMT  
DLKAPLQQCAEDRQICPSLAGFQFTQWDSETHNESVSALVDKFKKNDQVFDINAEVDESDCGDFPDGSLGDDFDA  
NDEPDHTAVGDHEEFRSWKEPCQVQSCQEEMISLGDGDIRTMCPLLSMKPGEYSYFSPRTMSMWAGPDHWRFRPR  
RKQDAPSQSENKKKSTKKDFEIDFEDDIDFDVYFRKTKAATILTKSTLENQNRATTLPDFFNYNVDTLVQLHLK  
PGTRLLKMAQGHRVETEHYEEIEDYDYNPNPNDTSNFCPGLQAADSDDDLDDLFVGPVGNSDLSPYPCHPPKTAQ  
QNGDTPEAQGLDITTYGESNLVAEPQKVNKIEIHYAKTAKKMDMKKLKQSMWSLLTALSGKEADAEANHREAGKE  
AALAEVADEKMLSGTLTKDLQSLPFPVMAQNLSIPLAFACLLHLANEKNLKLEGTEDLSDVLRQGD

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**FIGURE 820A**

TTCCAAGAAGAAGGATTTGCACCCTCGGGATATTGATGCATTTTGGCTGCAGCGGCAGCTCAGTCGTTTCTATGA  
TGATGCCATCGTGTGCGAGAAGAAGGCAGATGAAGTATTGGAGATTTTGAAGACGGCCAGTGATGATCGGGAATG  
TGAAAATCAGCTGGTTCTGCTGCTTGGTTTCAACACCTTTGATTTTATTAAAGTGTTCGGGCAGCACAGGATGAT  
GATTTTATACTGTACCTTGCTGGCCAGTGACAAAAGTGAAGCTGAAAAGGAAAGGATTATGGGAAAGATGGAAGC  
TGACCCAGAGCTATCCAAGTTCTCTACCAGCTTCATGAAACCGAGAAGGAGGATCTGATCCGAGAGGAAAGGTC  
CCGGAGAGAGCGAGTGCGTCAGTCTCGAATGGACACAGATCTGGAACCATGGATCTCGACCAGGGTGGAGAGGC  
ACTGGCTCCACGGCAGGTTCTGGACTTGGAGGACCTGGTTTTTACCCAAGGGAGCCACTTTATGGCCAATAAACG  
CTGTCAGCTTCTGATGGATCCTTCCGTCGCCAGCGTAAGGGCTATGAAGAGGTGCATGTGCCTGCTCTGAAGCC  
CAAGCCCTTTGGCTCAGAAGAACAACCTGCTTCCAGTGGAAGGCTGCCAAAGTATGCCAGGCTGGGTTTGAGGG  
CTTCAAAACACTGAATCGGATCCAGAGTAAGCTCTACCGTGCTGCCCTTGAGACGGATGAGAATCTGCTGCTGTG  
TGCTCCTACTGGTGCTGGGAAGACCAACGTGGCCCTGATGTGCATGCTCCGAGAGATTGGGAAACACATAAACAT  
GGACGGCACCATCAATGTGGATGACTTCAAGATTATCTACATTGCCCCATGCGCTCCTTGGTGCAGGAGATGGT  
GGGCAGCTTTGGAAAGCGCCTGGCCACTTATGGCATCACTGTTGCTGAACTGACTGGGGACCACCAGCTGTGCAA  
AGAAGAGATCAGTGCCACTCAGATCATCGTCTGCACCCCCGAGAAGTGGGACATCATCACCCGCAAGGGTGGTGA  
GCGCACCTACACCCAGCTGGTGCGGCTCATCATTCTGGATGAGATTCTCTTCTCCACGATGACAGAGGTCTGT  
CTTAGAAGCTTTAGTGGCCAGGGCCATCCGAAACATTGAGATGACCCAAGAGGATGTCCGACTCATTGGTCTCAG  
TGCCACCCTACCCAACATATGAAGATGTAGCCACCTTTCTACGTGTTGACCCTGCCAAGGGTCTCTTTTACTTTGA  
CAACAGCTTCCGTCCAGTGCCCTCTGGAACAGACATATGTGGGTATCACAGAGAAAAAGCTATCAAGCGTTTCCA  
GATCATGAATGAAATCGTCTATGAAAAATCATGGAACATGCTGGAAAAATCAGGTGCTGGTGTGTTGTCCACTC  
CCGGAAGGAGACTGGAAAGACAGCCAGGGCCATCCGGGACATGTGCCTAGAAAAGGACACTCTGGGTCTGTTTCT  
GAGGGAGGGCTCAGCCTCCACAGAAGTCTGCGAACAGAAGCTGAGCAGTGCAAGAACCTAGAGCTGAAGGATCT  
TCTGCCTTATGGCTTTTGCTATTTCATCACGCAGGCATGACCAGGGTTGACCGAACACTCGTGGAGGATCTTTTTGC  
TGATAAACATATTTCAGGTTTTAGTTTCCACAGCAACTCTAGCTTGGGGTGTGAATCTCCCTGCACATACAGTCAT  
CATCAAAGGCACCCAGGTGTACAGTCCAGAGAAGGGGCGTTGGACAGAAGTGGGAGCACTGGACATTCTGCAGAT  
GCTGGGACGTGCCGAAGACCCCAAGTATGACACCAAGGGTGAAGGCATACTCATCACATCTCATGGGGAGCTACA  
GTACTACCTGTCCCTCCTCAATCAACAACCTTCTATTGAAAGCCAGATGGTTTCAAAGCTTCTGCATGCTCAA  
TGCAGAAATCGTGCTAGGAAATGTCCAGAATGCCAAGGATGCGGTGAAGTGGCTGGGCTATGCCTACCTCTATAT  
CCGAATGCTGCGATCCCCAACCTCTATGGCATCTCTCATGATGACCTCAAGGGAGATCCCTGCTGGACCAGCG  
CCGACTAGATCTGGTTTACATACAGCTGCCCTGATGCTGGACAAGAACAATCTGGTCAAGTACGACAAGAAGACGGG  
CAACTTCCAGGTGACAGAAGTGGGCCGTATAGCCAGCCACTACTACATACCAATGATACAGTGCAGACTTACAA  
CCAGCTGCTGAAGCCCACCTGAGTGAGATTGAGCTTTTTCAGGGTCTTCTCATTGTCTCTGAGTTCAAGAACAT  
CACAGTGAGAGAGGAGGAGAAGCTGGAGCTGCAGAAGTTGCTGGAGAGGGTGCCTATCCCTGTAAAGGAGAGCAT  
TGAGGAACCCAGTGCTAAGATCAACGTTCTTCTGCAAGCCTTCATCTCACAGCTGAAATTGGAGGGCTTTGCACT  
GATGGCTGACATGGTGTATGTACACAGTCGGCTGGCCGGTTGATGCGAGCGATATTTGAAATTGTCTGAACCG  
AGGTTGGGCACAGCTTACAGACAAGACCTGAACCTCTGCAAGATGATCGACAAACGCATGTGGCAGTCCATGTG  
TCCTCTGCGCCAGTTCCGGAAACTCCCTGAGGAAGTAGTGAAGAAGATTGAGAAGAAGAATTTCCCTTTGAGCG  
TCTGTACGACCTGAATCATAATGAGATTGGGGAGCTTATCCGATGCCAAAGATGGGGAAGACCATCCACAAATA  
TGTCATCTGTTTTCCAAGTTGGAGTTGTCAGTGCACCTGCAGCCTATCACACGCTCCACCCTGAAGGTGGAGCT  
GACCATCACGCCAGACTTCCAGTGGGATGAAAAGGTGCATGGTTTCATCCGAGGCTTTTTGGATTCTGGTGGAGGA  
TGTGGACAGCGAGGTGATTCTGCACCATGAGTATTTTCTCCTCAAGGCCAAGTACGCCCAGGACGAGCACCTCAT  
TACATTCTTCGTGCTGTCTTTGAACCGCTGCCCCCTCAGTACTTCATCCGAGTGGTGTCTGACCGCTGGCTCTC  
TTGTGAGACCCAGCTGCCTGTCTCCTTCCGGCACCTGATCTTGCCGGAGAAGTACCCCCCTCAACCGAATTTT  
GGACCTGCAGCCCTTGCCCGTGTCTGCTCTGAGAAACAGTGCCCTTGAGAGTCTTTACCAAGATAAATTTCTTTT  
CTTCAATCCCATCCAGACCCAGGTGTTTAACTGTATAACAAGTACGACAACGTGTTTGTGGGGGCCCCCAC  
GGGCAGCGGGAAGACTATTTGTGCAGAGTTTGCCATCCTGCGAATGCTGCTGCAGAGCTCGGAGGGGCGCTGTGT  
GTACATACCCCCATGGAGGCCCTGGCAGAGCAGGTATACATGGACTGGTACGAGAAGTTCAGGACAGGCTCAA  
CAAGAAGGTGGTACTCTGACAGGCGAGACCAGCACAGACCTGAAGCTGCTGGGCAAAGGGAACATTATCATCAG  
CACCCCTGAGAAGTGGGACATACTTTCCGGCGATGGAAGCAGCGCAAGAAGCTGCAGAACATCAACCTCTTCGT



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**FIGURE 820B**

GGTGGATGAGGTCCACCTTATCGGGGGCGAGAATGGGCCTGTCTTAGAAGTGATCTGCTCCCGAATGCGCTACAT  
CTCCTCCCAGATTGAGCGGCCCATTCGCATTGTGGCACTCAGCTCTTCGCTCTCCAATGCCAAGGATGTGGCCCA  
CTGGCTGGGCTGCAGTGCCACCTCCACCTTCAACTTCCATCCCAATGTGCGTCCCGTCCCGTTGGAGCTGCACAT  
CCAGGGCTTCAACATCAGCCATACACAAACCCGCCTGCTCTCCATGGCCAAGCCTGTGTACCATGCTATCACAA  
GCACTCGCCCAAGAAGCCTGTCATTGTCTTTGTGCCGTCTCGCAAGCAGACCCGCCTCACTGCCATTGACATCCT  
CACCACCTGTGCAGCAGACATCCAACGGCAGAGTTCTTGCACTGCACCGAGAAGGATCTGATTCCGTACCTGGA  
GAAGCTAAGTGACAGCACGCTCAAGGAAACGCTGCTAAATGGGGTGGGCTACCTGCATGAGGGGCTCAGCCCAT  
GGAGCGACGCCTGGTGGAGCAGCTCTTCAGCTCAGGGGCTATCCAGGTGGTGGTGGCTTCTCGGAGTCTCTGCTG  
GGGCATGAACGTGGCTGCCCACCTGGTAATCATCATGGATACCCAGTACTACAATGGCAAGATCCACGCCTATGT  
GGATTACCCCATCTATGACGTGCTTCAGATGGTGGGCCACGCCAACCGCCCTTTGCAGGACGATGAGGGGCGCTG  
TGTATCATGTGTGTCAGGGCTCCAAGAAGGATTTCTTCAAGAAGTTCTTATATGAGCCATTGCCAGTAGAATCTCA  
CCTGGACCACTGTATGCATGACCACTTCAATGCTGAGATCGTCACCAAGACCATTGAGAACAAGCAGGATGCTGT  
GGACTACCTCACCTGGACCTTTCTGTACCGCCGCATGACACAGAACCCCAATTACTACAACCTGCAGGGCATCTC  
CCATCGTCACTTGTCTGGACCACTTGTGAGAGCTGGTGGAGCAGACCTGAGTGACCTGGAGCAGTCCAAGTGCAT  
CAGCATCGAGGACGAGATGGACGTGGCGCCTCTGAACCTAGGCATGATCGCCGCCTACTATTACATCAACTACAC  
CACCATTGAGCTCTTCAGCATGTCCCTCAATGCCAAGACCAAGGTGCGAGGGCTTATCGAGATCATCTCCAATGC  
AGCAGAGTATGAGAACATTCCCATCCGGCACCATGAAGACAATCTCCTGAGGCAGTTGGCTCAGAAGGTCCCCCA  
CAAGCTGAATAACCCTAAGTTCAATGATCCGCACGTCAAGACCAACCTGCTCCTGCAGGCTCACTTGTCTCGCAT  
GCAGCTGAGTGCTGAGTTGCAGTCAGATACGGAGGAAATCCTTAGTAAGGCAATCCGGCTCATCCAGGCCTGCGT  
GGATGTCTTTCCAGCAATGGGTGGCTCAGCCCTGCTCTGGCAGCTATGGAACCTGGCCAGATGGTCAACCAAGC  
CATGTGGTCCAAGGACTCATACCTGAAGCAGCTGCCACACTTACCTCTGAGCATATCAAACGTTGCACAGACAA  
GGGAGTGGAGAGTGTTCGACATCATGGAGATGGAGGATGAAGAACGGAACGCGTTGCTTCAGCTGACTGACAG  
CCAGATTGCAGATGTGGCTCGCTTTTGTAAACCGCTACCCTAATATCGAACTATCTTATGAGGTGGTAGATAAGGA  
CAGCATCCGCAGTGGCGGGCCAGTTGTGGTGCTGGTGCAGCTGGAGCGAGAGGAGGAAGTCACAGGCCCTGTCTAT  
TGCGCTCTCTTCCCCGAGAAACGTGAAGAGGGCTGGTGGGTGGTGAATGGAGATGCCAAGTCCAATAGCCTCAT  
CTCCATCAAGAGGCTGACCTTGCAGCAGAAGGCCAAGGTGAAGTTGGACTTTGTGGCCCCAGCCACTGGTGGCCA  
CAACTACACTCTGTACTTCATGAGTGACGCTTACATGGGATGTGACCAGGAGTACAAATTCAGCGTGGATGTGAA  
AGAAGCTGAGACAGACAGTGATTGAGATTGAGTCCTGAGGCATTTACTTTTGGGTAAAGGAGAGTTGAGCCTGAA  
TTAGGAATGTGTACATTGTAGGAATCCTGGTTGTGGGGACCAGGTCTGTGGGCCTCAGGTCTGGCCAGCCAGGGC  
TGGTGTCTGTCCCCGCCTACCTCCACTTCCTTTCCCTTGCTCACTCTGGATCCAGTGACAGCAGGTGTCTATGGGTC  
AAGCATAAATCATATATAGCATTTTCAGGCATGTTCTGGTAGTTCTTTTGAGTCTGACATTCTAATAAAATAAT  
TTGTAGAAACC

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**FIGURE 821**

MADV TARS LQY EY KANS NLVL QADR SLIDR TRRDEPTGEVLSLVGKLEGRMGDKAQR TKPQM QEERRAKRRKR D  
EDR HDINKMKG Y TLLSE GIDEMVG I IYKPKTKETRETYEVLLSFIQAALGDQPRDILCGAADEVLA VLKNEKLRD  
KERRKEID LLLGQTDD TRYHVLVNLGKKITDYGGDK EIQNMDDNIDETYG VNVQFESDEEEGDEDVYGEVREEAS  
DDDMEGDEAVVRCTLSANLVASGELMSSKKKDLHPRDIDAFWLQRQLSRFYDDAIVSQKKADEVLEILKTASDDR  
ECENQLV LLLGFNTFDFIKVLRQHRRMILYCTLLASAQSEAEKERIMGKMEADPELSKFLYQLHETEKEDLIREE  
RSRRERVRQSRMDTDLETMDLDQGG EALAPRQVLDLEDLVFTQGS HFMAN KRCQLPDGSFRRQRKGYEEVHVPAL  
KPKPFGSEEQLLPVEKLPKYAQAGFEGFKTLNRIQSKLYRAALETDENLLL CAPTGAGKT NVALMCM LREIGKHI  
NMDGTINVD DFKI IYIAPMRS LVQEMVGSFGKRLATYGITVAELTGDHQLCKEEISATQIIVCTPEKWDI ITRKG  
GERTYTQLVRLI ILDEIHLHDDRGPVLEALVARAIRNIEMTQEDVRLIGLSATLPNYEDVATFLRVDPAKGLFY  
FDNSFRPVPLEQTYVGITEKKA I KRFQIMNEIVYEKIMEHAGKNQVLV FVHSRKETGKTARAI RDMCLEKDTLGL  
FLREGSASTEVLRTEAEQCKNLELKD LLPYGFAIHHAGMTRVDRTLVEDLFADKHIQVLVSTATLAWGVNLP AHT  
V I IKGTVQVSPEKGRWTEL GALDILQMLGRAGRPQYDTK GEGILITSHGELQYYLSLLNQQLPIESQMVSKLPDM  
LNAEIVLGNVQNAKDAVNWLGYAYLYIRMLRSPTLYGISHDDLKGDPLLDQRRRLDLVHTAALMLDKNNLVKYDKK  
TGNFQVTELGR IASHYYITNDTVQTYNQ LKPTLSEIELFRVFSLSSEFKNITVREEEKLELQKLLERVPIPVKE  
SIEEPSAKINVL LQAFISQLKLEGFALMADMVYVTSAGRLMRAIFEIVLNRGWAQLTDKTLNLCKMIDKRMWQS  
MCPLRQFRKLPEEVVKKIEKKNFPERLYDLNHNEIGELIRMPKMGKTIHKYVHLFPKLELSVHLQPI TRSTLKV  
ELTITPDFQWDEKVGHSSEAFWILVEDVDSEVILHHEYFLLKAKYAQDEHLITFFVPVFEP LPPQYFIRVSDRW  
LSCETQLPVSFRLHILPEKYPPPTELLDLQPLPV SALRNSAFESLYQDKFPPFNPIQTQVFNTVYNSDDNVFVGA  
PTGSGKTICAEFAILRMLLQSSEGR CVYITPMEALAEQVYMDWYEKFQDRLNKKVLLTGETSTD LKLLGKGNI I  
ISTPEKWDILSRRWKQRKNVQNINL FVVDEVHLIGGENGPVLEVICSRMRYISSQIERPIRIVALSSSL SNAKDV  
AHLWGCSATSTFNFHPNVRPVPLELHIQGFNISHTQTRLLSMAKPVYHAITKHSPKKPVIVFVPSRKQTRLT AID  
ILTTCAADIQRQRF LHCTEKDLIPYLEKLS DSTLKETLLNGVGYLHEGLSPMERRLVEQLFSSGAIQV VVASRSL  
CWGMNVA AHLVIIMDTQYYNGKIHAYVDYPIYDVLQMVGHANRPLQDDEGR CVIMCQGSKKDFFKKFLYEPLPVE  
SHLDHCMHDHFN AEIVTKTIENKQDAVDYLTWTFLYRRMTQNP NYYNLQGISHRHLS DHLSELVEQTLSDLEQSK  
CISIEDEM DVA PLNLGMIAAYYYINYTTIELFSMSLNAKTKVRGLIEIISNAAEYENIPIRHHEDNLLRQLAQKV  
PHKLNNPKFN DPHVKTNLL LQAHL SRMQLSAELQSDTEEILSKAIRLIQACVDVLSSNGWLSPALAAMELAQMVT  
QAMWSKDSY LKQLPHFTSEHIKRC TDKGVESVFDIMEMEDEERNALLQLTDSQIADVARFCNRYPNIELSYEVVD  
KDSIRSGGPVVVLVQLERE E E V TGPVIAPLFPQKREEGWV VIGDAKSNLSISIKRLTLQQAKVKLDFVAPATG  
AHNYTLYFMSDAYMGCDQEYKFSVDVKEAETDSDSD

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**FIGURE 822**

GTTTCCATCCCTCCTCTGGAGGCTTTTGAAGTCACCGGGAGACAGATGTGCTCTGTGGCAGGCAGGGGAGTGGGG  
GTGCTCAGGCACCTTGGGAGGTCTGGGAGCTCCTCAGTGTGACCGCTGGGACCCACCAGGACTTTTTCCTTTGTCA  
GAAGCCTTTGGTTGCTTTGCTGCTCTGCATGTGTCACTGTGGAGGGGCAATAGAGCAAGGCCTTACATGGCATGG  
TCATTTCTCGGGCCCAGGAGGCTTAGAGGCCTGCCCCCTGGCGCTCAAGTATTGAACCAGAACCATGGGGTGGCAC  
TGAAGCCTCCTCACCACATCATGATAAATAACGGGGACATTACAGAGCAGGCACTGTTTCCCTCAGTCCATGGCT  
GAGTACATCACCGGTGTTTTCTCTCTTATTCCCTCCCATCAAGCCTAAAAGGAATCTCTATTGGAGATACTGCCAT  
TAGTGTTCCCTTTTATAGGTGAGGAAGTGAAGGCATAGAGGGTTCCCCAGTTGAACCAACTGATAAATAGTAGAACT  
TGGATTTTAATTCAGTCTTGATGCCAGGGATAAGGCTCTTACTTTCTACCTTAGGCTATTTCTAGGAAACGCAGG  
AGAGTGTTGAAGGGGCAGAGAAAGGGATCCAGTTCCTTTCTGTCCCGCATCCTAGTCCCTGAGAAGCAAAGAAGA  
ATGTGTGGCTTCTTTTGCTTTGCTTTTGTGTGCATCCACACATCTCCAGGGGACCTGGGCTCTTGATCTTGGCC  
TCTTCCCCCTTTAACTGTTAAGTGGGAGCAGGTAAGGGGGTACAGTAGGGCTGGCCTGGAGTTAGAGGCTTGGATG  
CCTTAGCTCCTCTGTCTGCACTCCAGAACTGCCTGACTTCATTTCTGTATGTTGTCTTTGTTTTGACAATTGATC  
CATGTCCCAGTCCGTCTCTTCTTCTTCTTGATACTTACACTGCTTCTTTCTGTTGGTTTTCCAGTGTTTAACACT  
GTATAACAAGTGACGACAACGTGTTTGTGGGGGCCCCACGGGCAGCGGGAAGACTATTTGTGCAGAGTTTGCC  
ATCCTGCGAATGCTGCTGCAGAGCTCGGAGGGGCGCTGTGTGTACATCACCCCCATGGAGGCCCTGGCAGAGCAG  
GTATGACGTGGCGCTGTGTCAATGTGAATTTCCCAAGAAGCATTTTCATCTGTGATTCCGTATGAAGGCTTTCTAAG  
CCCTGAAATTTGCAGGGTCATTTCTCAGTTTGTGTATTAAAGAAAAGCTGCCCCAGCCAAGCGTGGTGGCTCAC  
GCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCAGATCTCCGGAGATCAGGAGTTTCGAGACCAGCCTGGCC  
AACATGGTGAAACCCTGTCTCTACTAAAAATACAGAAATTAGCTGGGCGTGGTGGTGTGCGCCTGTAATCCCAGC  
TACTTGGAAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCGGAGGTTGCAGTGAGCCAAGTTCGCACCACT  
GCACTCCAGCCTGGGCAACAAGAGCGAGACTTCATCTCA

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**FIGURE 823**

GCGGAAGGCGCGGGAGCTTGCGTGCTGCTGGGCCTGAGCTGTCTGTCTCGTTTCTGTCCGCGCGCCCTGCATCCC  
GGCCCCGGGCGCCCGCTGGAGGTCGCCGAGGAGCCACAGGGCTGACTGGTCTGCTGCCCGGGCCAGGAGTGCCCT  
GGTGTAGCAGTCGCGGAGCCATCCCGGCGTCTGCTGCCATGACCGACTCTCCCTCAGAGGAGACTCTTCCTCAG  
CGGTGGCTGCAGAGACAGATGAGCGGCGGCTCCTGGCCGCGGGACCGTGAGACGGGTTCTGTGGCCGGCCATTTAG  
GGGACGCTGCGACCACCGCCTGCGCCCCCTCCGGACTGGTTCCTTGGGCCCCGGAAGCTCGCGGCGGGCCCTGCG  
GGAGGCGGCATGCTCCCGCGGAGGCTGCTGGCCGCCTGGCTGGCGGGGACGCGGGGCGGGGGCCTGCTGGCGCTT  
CTGGCCAATCAGTGCCGCTTCGTACGGGCCTGCGCGTGCGGCGCGCAGCAGATCGCGCAGCTCTACGGCCGC  
CTCTACTCCGAGAGCTACGCCGCGTTCCTCTCGGCCGCTCTGGCGCCGGCTGCACGGCCGCTCTGGCCATGCC  
TCTGCCTTGATGGCGGCGTTAGCCGGCGTCTTCGTTTGGGACGAGGAGAGGATCCAGGAGGAGGAGTTGCAGAGA  
TCTATTAATGAGATGAAGCGGTTGGAAGAAATGTCAAATATGTTTCAGAGCTCTGGAGTCCAGCACCACCTCCA  
GAACCAAAAGCCCAACAGAAGGGAATGAAGATTCAGAGGGCAAAGAGCAACGTTGGGAAATGGTGATGGATAAG  
AAACACTTTAAGCTGTGGCGGCGCCCAATTACAGGCACCCACCTTTACCAGTACCGAGTTTTTGGAACTACACA  
GATGTGACACCTCGGCAGTTCTTCAATGTTTCAGCTGGACACAGAGTATAGAAAAAATGGGATGCCCTGGTAATC  
AAGCTGGAGGTGATTGAGAGGGATGTGGTTAGTGGTTCCGAGGTTCTTCACTGGGTAACCCATTTTTCTTATCCA  
ATGTACTCACGGGATTATGTTTATGTTTCGGCGGTATAGTGTGGATCAGGAAAACAACATGATGGTGTGGTGTCTG  
CGTGCTGTGGAGCATCCGAGTGTGCCAGAGTCTCCAGAATTCGTACGGGTGAGATCATATGAATCCCAAATGGTT  
ATCCGTCCCCACAAGTCATTTGATGAGAATGGCTTTGACTACTTACTAACATACAGTGACAATCCCCAAACGGTG  
TTTTCTCGCTACTGTGTTAGTTGGATGGTTTCCAGTGGCATGCCAGATTTCTGGAGAAGCTGCACATGGCCACT  
CTGAAAGCCAAGAATATGGAGATTAAAGTAAAGGACTACATCTCAGCTAAGCCTCTGGAAATGAGTAGTGAAGCC  
AAGGCCACCAGCCAGTCCTCTGAGCGAAAGAACGAGGGCAGCTGTGGCCCTGCTCGGATTGAGTATGCTTGACAG  
GCTTTGGGATAAGAAGGGACAAGGTGCTTCTAGCCCTGTCTCAGTCCGTTATCACTCTGCTGTAGAAGGGGGACA  
TGCCACATGTATTAGAAGGCATCTGCTGTAACCTCCAGTGCAAGATAATTCAATAACTGATGTCCCATTTTCATTC  
AGAGCCCTTATTGCTCTTATCAAACAGAAGAAGGCTACATTTGTGGGAGTGTGTGCATATTCTCAGGCCAACTG  
TTTTGAAATTCGGTATCTCACTGAGCTAATCTGGAACAAACCTCTCACCTCAGGCCAGAAGGGGATGACCTCCAT  
TTGCTTCTCTGAGTAGTTTCTCTGCTGACATTCCAAATCCCACCATCGATTGTGCAGCGCTTTGGATTTCTTTC  
AGTTCTCCAGGTCCACCTGGAAAGTATAGTTGGCCAGTTGAGTCTCTCAAATGAGGGGCTACTGGGAGTGCTCTT  
GGTAACAATCATGATGTGAATGGGTGTGAACGATACTGGCTATGTTAAGTGCCTTGTCCGCACCTTGCTTTTAT  
CTCTAGAGACATGAAGTTATTATTAATTTTTTTTTTTTAAAGTAGAGATGGAGTTTCACTCTGTTTCCCAGGCT  
GGTCTTGAACCTCTGGGCCATGCCTGGCCAGGGACATGAATTTGTACAAAGAAATTTCCCTCCCTGCCTGCACAA  
TATACCCATTGACTCACCTTATCCAAAGCAAGTTTCTGTGAATCGGCCAGTTCTTCTATATTCAATTGGATCAT  
TGCCTCCTTCTAACCTTCCCCATTTACCAAGAACTGGGAGACTAATCCTTTTAGATAGTAGCTTTTTTGATGC  
TCAAAACATCACATTTAAATTTAGTTTAAAAATTTTTTAACTTTTGTGTCAAATAGGAGTTGAGGAATTGAGCAG  
GATTCTACCCTAGTCCGATTGTATAGAAAACACCATTTTGATTACGGTATTATTTTTTCATATTTCAGGTTTGACT  
TGTTCTTTTCAGAAGGCTAAAGTCAGAGGAATGGGGGCTGGGCCACTCCCTTGGAGCTCTCAGATCTACAGACAA  
GCTGTGTGAATGCATAGATGTAATCTTGTCTCAAATACTAATACAGTGGAGATTTGGTTTATGTTACCATTAAGT  
TCCTCTAAAAAGTTTTTCTTCTCTTTCAGAGCCAAAATAAAAGTGAACCTACACTGTTTCAGATAAGGTCACAAT  
CTGATGCTGTGAGTTTGACCGAGCTGGTTTTGCTTATGGTCATGCTGCAATTTGTTAGAATAATAGGGATCAAGT  
TTTAAATCCTCCTCCTTCCCTTTTTTCTGGAGTCTTGAGGGCCAGAGTTTTTGTGTTTTGTTTTGTTTTT  
CCTGCTTGCTACTGTTTTGTGGTGTGAAAAGTGGTTTAAACCTGAGACTAAGTAAACACTTCCCTGACCTTCT  
TGTTGCCTGTTTCAATTTTTGTGCCAAGGAAGTAGCTGCCCCAGTGTATGTCTTGCCTTCTCCGCGTCATTGTGGA  
AGAGGAGAGATGCATCGAGCAGTCCAGCTGCTTTTCATTTATTACTTCTTCTTTCCAGGACCTGACAGAAGTCA  
GGGAAGAGTCCCTGGGTTATGTCCAAACTTAGCACCTGCAATTGTTGGGATGTGGATGGATGTGTGCATAAGAGA  
GAGAGAGAATATGTGTGTGTGTGTGCGTCTGCGAGCGCACACATGCACAAGTGCGAAGGAGTTGCGGTTGC  
TCCATGTTCTGACTTAGGGCAATTTGATTCTGCACTTGGGGTCTGTCTGTACAGTTACTCATGTCAATTGTAATGA  
TTTCACTCCTAACTGTGACATTTTTATCAAATGTGTGAATAAATACATAAAGATTGGTAC

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**FIGURE 824A**

CGCGCTTAGGGATCCGGCCGTGGCCGAGCGCGCGGCCGTAAGACCGCGGGTGACTAGCATGCAGATACCCATGCT  
CTGACTTTCTGCCCTCCACTGACATGGCCACCGGGGTGGGGAGAGGGACTTCCAGACTTCAGCTCGACGCATG  
GGCACCTCGCTGCTCTTCCAGCTTTTCAGTGCATGAACGGGAGCTGGACCTGGTTTTTCTGGATCATAGCTATGCC  
AAGCCTTGGAGTGCCACCCAGATGCCAGTAGTGCCCGCCCCACCCGCATGCTCTTTGTCACTCCCCGGCGGCAG  
CACGAAAGTACCATTGAATCAGACGTCCCAATAGATGTGGAGACGGTCACATCAACGCCTATGCCACTCTATGAC  
AATCAGAAGGCACGCAGCGTGATGAATGAGTGTGAACGGCATGTTCATCTTTGCCAGGACTGATGCAGATGCCCT  
CCTCCACCAGAGGACTGGGAGGAGCATGTCAACAGGACTGGCTGGACAATGGCCAGAACAAGCTATTCAACAAG  
ATCCTCAAAGCCCTGCAGTCTGACCGGCTTGCCCGCTTGGCCAACGAAGGGGCTTGTAATGAGCCAGTGCTGCGC  
CGTGTGTGCTGTGGACAAGTGTGCAAGGAGAGTGCGGCAGGCTCTGGCAAGTGTGAGCTGGGATACCAAGCTGATC  
CAGTGGCTGCACACCACCCTTGTGGAGACCTTGAGTCTGCCATGCTGGCAGCCTACCTGGATGCTTTGCAGACG  
CTGAAGGGGAAGATCCCAACCTTGATTGACCGGATGCTTGTGTTCATCCAACACAAAGACTGGGGCTGCAGGAGCT  
GAGGCCTTGTCTCTCTACTGAAGAGGCCCTGGGACCCTGCTGTGGGTGTGCTTTCTCATAACAAACCAAGCAAA  
CTCCCTGGCTCTCCGCTGATTCTCATCGCCTCCTCTGGTCCCTCCAGCTCTGTGTTTCCCACTTCACGCCGCCAC  
CGCTTCTGGCAATCTCAGCTGTCTGCTTGGGCAAGTTCATCCCTGTAGCCACCCATCTGCTGAACAATGGCAGT  
GGGGTAGGAGTTCTACAGTGTCTCGAGCATATGATTGGGGCAGTGAGAAGCAAAGTGTGGAGATTACAGCCAT  
TTCCACACAAACCCATTATCTTGATTGGCTGGAACACAGGAGCTTTGGTGGCCTGTCATGTGTGAGTAATGGAG  
TATGTCACTGCAGTTGTCTGCCTTGGGTTTCTCTGCTTACTGTGGATGGCCCCAGAGGGGATGTAGATGATCCC  
CTCTTGGATATGAAGACTCCAGTCTCTTTGTTCATTGGTTCAGAAATCCCTTCAATGTACCCCTGAAGCCATGGAG  
GACTTCCGGGAGAAGATTTCAGCTGAGAACAGCTTGGTGGTGGTTGGGGGAGCTGATGACAATCTCAGAATAAGC  
AAAGCAAAGAAGAAATCAGAAGGGTTGACTCAGAGCATGGTGGACAGATGTATTTCAGGATGAGATTGTGGACTTT  
CTGACTGGAGTGCTCACTCGTGCTGAGGGTCACATGGGCTCTGAACCTCGGGATCAGGATGCTGAGAAGAAGAAG  
AAGCCCCGCGATGTGGCCCCGAGAGACTTGGCCTTTGAAGTCCCTGAGCGGGGAGTGCACCTGCCTCCCAAGCT  
GCCAAGCTGCCCCGCTCACCTCAGGCTCAGAGGATCTCTCCAGTGTGTCCAGCAGCCCCACCTCCAGTCCCAAG  
ACCAAAGTGACCACAGTGACCTCTGCCCAGAAGTCCAGTTCAGATTGGAAGTTCTCAGCTGCTGAAGAGACATGTG  
CAGCGGACAGAAGCTGTGCTGACCCACAAACAAGCTCAAGCACAGTTTGTGCTTTTCTGAAACAAAATATGCTG  
GTGAGGAAAGCTCTTCTCTCTGGCACCTCCTCCTGTCTCTTTGTTCCCATTTTCATCAGAACCACCAGAGGAAGGA  
GAGAAAGAGGATCTTAGGGTTTCAGCTGAAGCGACACCATCCCTCGAGTCCCCTTCTGGCAGTAAGACCTCCAAA  
CGACCGAAGATCAAGGTGTCCCTTATCTCCCAAGGGGACACAGCTGGAGGGCCTTGTGCTCCTTCCCAAGGAAGT  
GCTCCAGAAGCTGCAGGTGGGAAGCCCATCACCATGACACTGGGGCAGGCTTCAGCAGGGGCCAAGGAGCTCACA  
GGACTTCTCACCACAGCCAAGTCCAGTTCTTCTGAAGGTGGAGTCTCAGCCAGCCCAGTCCCTTCAGTGGTCTCC  
AGCAGCACTGCACCCAGTGCCCTGCACACACTGCAGAGCCGCCTGGTGGCCACATCTCCTGGCAGCTCCCTCCCA  
GGGGCCACATCAGCCAGCAGCCTCCTCCAAGGCCTCAGCTTCAGCTTGCAGGATATCAGCAGCAAGACCTCTGGC  
CTTCCAGCAAATCCCTCCCCAGGACCAGCCCCACAGGCTTGAAGGTCCCCACCACCATTACTCTGACACTTCGTG  
GCCAGCCGAGCAGGATCACTACACTGAGCCCTATGGGCTCAGGAGCAGCCCCATCCGAGGAGTCTCTTCCCAGG  
TGCTGCCCTCCAGCTCACAGCGCCTGCCTCCAGACCCTGAAGATGCTGTGTGATATGTCTCTTACCAAGTTG  
GTGATGGCTGCCTCATGGTGGGCCCTGGACAGGTGTGTGGTCTGCTGAGCTGTCCACGTGTGCGAAGACCTGTT  
TAAGACAGTCATTTTTGCCTCTCCGCCAACTGTCTTCAGAGAAACCATTAGGTTAGGTGATACGGTGCCAGCAAG  
GGAAGCACCATCGTCCAGGATCTGCAAATCTGGTTCTGGGAACCCAGACTCCTCAGCAGATCTGGCTGTACAT  
GGATCAGAACCCTTCTTCCCCCGCTTAAGCTGTGGTTTGACCCAAGGGTCAGCATATAGGACTGCCTGCTGCAT  
TTAATGAAGGTGTTTTCTTTTGAAGTCTGTGCTACCCTCTGCGCCTAGTTGGGAGGAGACATCCATCTGGTCTG  
GGATTTCCGGAGTTAGAATGGAAGCTCTTTGCTAAAGACTGGAGTCATCCTGGCCTGCCAACTGGTGGTTTCAGA  
GCCGGACGGGCTTGTGTTTGGACATCACTGTTGCCCTTCACTCAGCAGCCACGGGAGAGTGCTCCCCATGCAACTCC  
ACCTTAGAAACCACGTCAGATACTGAGTAGCTTGTGACTCCTGGAAACTTCTGGTTTTTGTAGTATCATAATG  
AAGGCAAAGAGAACTAGGCTGTTCATCTTTCAGCCTCTTTGACTTACTCTAGATGTTGGGAGCAGTGGTTGCCAGG  
TGAAACCTGGGCCCTTTGTCTTTTTTACCATGCTTTGGGCAGTTTCTGTATCCAGAGAGTCCGCAGGTTTCAGATA  
AGCTGAAGAAGAGTAATAGAACAGCAAAGGAAGTGGCTTGAAGGATGTGCTAGTAAGCCCTGTGGTTTGTGCTTA  
GGTCTCTGCTCTGCTACCCAAGGAAGTGGTGGTTTCAGCTGGAGATAAAAAGAAGAATTTGCCAAGTCAGAGAAGA  
AACCCCAACCCCGGAAAATCCTCTGTCTCCAGTCTCTGGAGGTGAAGCAGGGACAATAAGCTAAGGTAGTATCTT

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**FIGURE 824B**

GGCCATCCCAGGAACTTGTGGCATTAGGACGATGAAGGCCATGCTTCAGTGTTTTCGTTTCTATTTTCATGAGAC  
TTTTTGTCTTCCTGCTTACAAGTGGGAAGATGATTGACAGTGACTCTACTATGCAGGGCTGTTGGTACCAACCTG  
AGCCCTATAGGTGGCAGTCCCTGGAGAAGTGGTCACAGAAGATGGAGCTCTGATCCCCTGCTTACCTCTTCACAA  
CACTTGTGTGCAAAGATAGTTTTAGATTTGGTTTAGAAGCTATCCTCCAGAACAGGCTCCCATACTTAGAATGTT  
TCTAGTTAAGGTAATAAATTAGGCAACCAAGTGTGACTCCACTCAAGTGTCTTTTTCTGTAGGCAGGAAGGGCC  
CACAACATGGCTTAAATGTAGTCCATGGTTCTGGCCACAGTACAGTGTGTATCTATAACCAGGTCACCTGTGTT  
CAATCTGGGAGCCTTCTTGCCAGTCTGAGTGGCAGCCAGAAGGGAGCTCATAGTGTCTAGGAGTCTCAGGCAAG  
GTAGGTCAGGGTACTGTGGGCAGGGGGGATGTGTGTGATAGGAGAGGGTACCCTAAACCCCATACCTTCCCTCCC  
TGACCTGAAAAGCTGATCTCAACAGGGATTACACAGAAATTAGGCTGTGTTTTTGCATTAGCTGGTAGGTGACTT  
TCTCAAATTTCTTAAATTCAGAAAGTATTTAGTAACTTGAGGAAGGTATGAAATCTGGAGGAGGCATCCAGGAC  
CCAGGGGTTTGATAGCTTTACAGGTAGGATCATACCACACCAAAAGAGCAGTGGACAATAAGACTATATGAGCTA  
TATGAAGCTTTTAGGAATCATTTAGGACAGACAGAGCCCTAAACAACCCATTTCATGACTTAAGTTGTTGGCTCAG  
TGTATGCTGGGGACAAAGAAAACTAACAAGCCGACCTGCCTTTATGATAAATTCAGTGTGCTTACAAGGGATG  
ACTTCCTGAGGTGTGATCTGTCCACCTTGAAGAACTCCACAACCTGAAGAAGGGGAGCTGTGAGAACGTGGATTGT  
TCTACAACCTGACAGGGTAACAGAGGAAGTGGCTGAGGCCTAGAGTCACGTTTTCCAGTTCCCTTTCGCAAACTA  
TATTTCTTGGAACGCGAAAGGAAGCTTTACCTATTTTCATAGAAGACCTGGAATCCATAACCTCAGAAGGCAATAT  
TATTGATAGAAAATGTGGAAGGATCAGGAAGTTCTTAGATTCTTGGATGACAGATGCATGTTGATGCCCTATGGA  
GATGTCCTTGTGTTTTGAGGTCACTGAGGTAGGAAGACCTGTCTACTCTTGGTTTCCACCTAGAACAGTCTTGG  
GCTGGATGGGTTATAGAGCTGAGCGGCTGTGATGGTTCTGTTTTTACATTAACAAAAACAATTAACAAACACCAAA  
AAC

**FIGURE 825**

CACACCCCTGCAGGACACCTCTCTGGCACAAACACCACCTTCTTTTGGGGTTTGTTCAGGCACATAGGGGTGACATGATGACCTGTGTCGGCCATCTGTGAGTACCAGTTGGAAGAGATCCAGCGGGTGTGTTGAGGCCCCCTATAAGGAGTACCATTAGGAAGCCCAGAAGTGGGACCGCTACACTGACCCGTGTACCCAGCCCTCGGCCGTGGCTCGTGCATTAAACAACCTGGCATCGGCGCCACGGCTACACCAGCTCCCTGGAGCTACCCGACAACATCCTCAACTTCGTCAAGAAGCACCCGCTGATGAGGAGCAGGTGGGGCCCTCGGTGGAGCCGCCCCCTGCTCGTGAAGAAGGGCACCAACTTCACCCACCTGGTGGCCGACCGGGTTACAGGACTTGATGGAGCCACCTATACAGTGCTGTTTATTGACACAGGAGACGGCTGGCTGCTCAAGCTGTGAGCCTGGGGCCCTGGGTTACCTGATTGAGGAGCTGCAGCTGTTTGACCAGGAGCCCATGAGAAGCCTGTGCTATCTCAGAGCAAGAAGCTGCTCTTTGCCGGCTCCCGCTCTCAGCTGGTGCAGCTGCCCGTGGCCGACTGCATGAAGTATCGCTCCTGTGCAGACTGTGTCTCGCCCCGGGACCCCTATTGCGCCTGGAGCGTCAACACCAGCCGCTGTGTGGCCGTGGGTGGCCACTCTGGATCTCTACTGATCCAGCATGTGATGACCTCGGACACTTCAGGCATCTGCAACCTCCGTGGCAGTAAGAAAGTCAGGCCCACTCCCAAAAACATCACGGTGGTGGCGGGCACAGACCTGGTGCTGCCCTGCCACCTCTCCTCCAACCTTGGCCCATGCCCGCTGGACCTTTGGGGGCCGGGACCTGCCGCGGAACAGCCC GGCTCCTTCTCTACGATGCCCGGCTCCAGGCCCTGGTTGTGATGGCTGCCAGCCCCGCCATGCCGGGGCCTTACACTGCTTTTTCAGAGGAGCAGGGGGCGCGGCTGGCTGCTGAAGGCTACCTTGTGGCTGTCTGTGGCAGCCCGTGTGTGACCTTGGAGGCCCGGGCCCCCTTGGAAAACCTGGGGCTGGTGTGGCTGGCGGTGGTGGCCCTGGGGCTGTGTGCCTGGTGTCTGTCTGTCTGGTGTCTGTCATTGCGCCGGCGGCTGCGGGAAGAGCTGGAGAAAGGGGCCAAGGCTACTGAGAGGACCTTGGTGTACCCCTGGAGCTGCCCAAGGAGCCACCAGTCCCCCTTCCGGCCCTGTCTTGAA CCAGATGAGAAAACCTTTGGGATCCTGTTCGGTTACTACTATTTCAGATGGCTCCCTTAAGATAGTACCTGGGCATGCC CGGTGCCAGCCCGGTGGGGGGCCCCCTTCGCCACCTCCAGGCATCCAGGCCAGCCCTTGCCCTTCTCCAACCTCGG CTTACACTGGGGGGTGGGCGGAACTCAAATGCCAATGGTTACGTGCGCTTACAACATAGGAGGGGAGGACC GGGA GGGCTTGGGCACCCCTGCCCTGAGCTCGCGGATGAACCTGAGACGCAAACCTGCAGCAACGCCAGCCACTGCCCGAC TCCAACCCCGAGGAGTCATCAGTATGAGAGGGGAACCCCAACCGCGCTCGGCGGGAAGCGTGGGAGGTGTAGCTCCTA CTTTTGCACAGGCACCAGCTACCTCAGGGACATGGCACGGGCACCTGCTCTGTCTGGGACAGATACTGCCCAGCA CCCACCCGGCCATGAGGACCTGCTCTGTCTCAGCACGGGCACTGCCACTTGGTGTGGCTCACCAGGGCACCAGCCT CGCAGAAGGCATCTTCTCTCTCTGTGAATCACAGACACGCGGGACCCAGCCGCCAAAACCTTTTCAAGGCAGA AGTTTCAAGATGTGTGTTTGTCTGTATTGTGCATGTGTTGTGTGTGTGTATGTGTGTGTGCACGCGCTGC GCGCTTGTGGCATAGCCTTCTGTCTCAAGTCTTCCCTTGGCCTGGGTCTCCTGGTGAGTCATTGGAGCT ATGAAGGGGAAGGGGTGCTATCACTTGTCTCTCCTACCCCACTGCCCGAGTGTGGGGCAGCGATGTACATAT GGAGGTGGGGTGGACAGGGTGTGTGCCCTTCAGAGGGAGTGCAGGGCTTGGGTGGGCCTAGTCCCTGCTCCTA GGGCTGTGAATGTTTTCAGGGTGGGGGGAGGGAGATGGAGCCTCCTGTGTGTTTGGGGGAAGGGTGGGTGGGC CTCCCACTTGGCCCCGGGGTTCAGTGGTATTTTATACTTGCCCTTCTCCTGTACAGGGCTGGGAAAGGCTGTGTG AGGGGAGAGAAGGGAGAGGGTGGGCCCTGCTGTGGACAAATGGCATACTCTCTTCCAGCCCTAGGAGGAGGGCTCCT AACAGTGTAACTTATTGTGTCCCCGCGTATTATTGTTGTGTAATATTGAGTATTTTATATTGACAATAAAAT GGAGAAAAATGAAAAA

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**FIGURE 826**

MYLSAICEYQLEEIQRVFEGPYKEYHEEAQKWDRYTDPVPSRPGSCINNWHRRHGYTSSLELPDNI LN FVKKHP  
LMEEQVGPRWSRPLL VKKG TNFTHLVADRV TGLDGATYTVLFIDTGDGWLLKAVSLGPWVHLIEELQLFDQEPMR  
SLVLSQSKKLLFAGSRSQLVQLPVADCMKYRSCADCVLARDPYCAWSVNTSRCVAVGGHSGSLLIQHVMTSDTSG  
ICNLRGSKKVRPTPKNITVVAGTDLVLPCHLSSNLAHARWTFGGRDLP AEQPGSF L YDARLQALVVM AAQPRHAG  
AYHCFSEEQGARLAAEGYLVAVVAGPSVTLEARAPLENLGLVWLAVVALGAVCLVLLLLVLSLRRRLREELEKGA  
KATERTLVYPLELPKEPTSPFFRCPCEPDEKLWDPVGYYYSDGSLKIVPGHARCQPGGGPPSPFFGIPGQPLPSP  
TRLHLGGGRNSNANGYVRLQLGGEDRGGLGHPLELADELRRKLQQRQPLPDSNPEESSV



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**FIGURE 827**

CGGAAGTTTTGCTGCTAGTCGCGGACGCAATGGCTTCAAGGTTACTTCGCGGAGCTGGAACGCTGGCCGCGCAGG  
CCCTGAGGGCTCGCGGCCCCAGTGGCGCGGCCGCGATGCGCTCCATGGCATCTGGAGGTGGTGTCCCACTGATG  
AAGAGCAGGCGACTGGGTTGGAGAGGGAGATCATGCTGGCTGCAAAGAAGGGACTGGACCCATACAATGTACTGG  
CCCCAAGGGAGCTTCAGGCACCAGGGAAGACCCTAATTTAGTCCCCTCCATCTCCAACAAGAGAATAGTAGGCT  
GCATCTGTGAAGAGGACAATACCAGCGTCGTCTGGTTTTGGCTGCACAAAGGCGAGGCCAGCGATGCCCCGCT  
GTGGAGCCCATTACAAGCTGGTGCCCCAGCAGCTGGCACACTTGAGCACCTGCACTAAATTACTCAAAATGTGCTG  
TAAAGTTTCTTCTTTCCAGTAAAGACTAGCCATTGCATTGGCTCCTTCTCCATAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 828**

MASRLRGAGTLAAQALRARGPSGAAAMRSMASGGGVPTDEEQATGLEREIMLAAKKGLDPYNVLAPKGASGTRE  
DPNLVPSISNKRIVGCICEEDNTSVVFWLHKGEAQRCPRCGAHYKLVPPQLAH

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**FIGURE 829**

TTGCAGCCGCCGGCAGCTACTGCAAGGCAAAAGCCGGAGTGGACGTGTCTTTTGAAACTGCTGCTCTTTCAC TTC  
TCAGGCGTCACCGAGAGCTCAGCACCCAGGCTGAACTCTGTACCATTTGGAAGAATGGAAGCTGATGCATCTGTT  
GACATGTTTTCCAAAGTCCTGGAGCATCAGCTGCTTCAGACTACCAAACCTGGTGGAAGAACATTTGGATTCTGAA  
ATTCAAAAACCTGGATCAGATGGATGAGGATGAATTGGAACGCCTTAAAGAAAAGAGACTCCAGGCACTAAGGAAA  
GCTCAACAGCAGAAACAAGAATGGCTTTCTAAAGGACATGGGGAATACAGAGAAATCCCTAGTGAAAGAGACTTT  
TTTCAAGAAGTCAAGGAGAGTGAAAATGTGGTTTGCCATTTCTACAGAGACTCCACATTCAGGTGTAAAATACTA  
GACAGACATCTGGCAATATTGTCCAAGAAACACCTCGAGACCAAATTTTTGAAGCTGAATGTGGAAAAAGCACCT  
TTCCTTTGTGAGAGACTGCATATCAAAGTCATTCCCACACTAGCACTGCTAAAAGATGGGAAAACACAAGATTAT  
GTTGTTGGGTTTACTGACCTAGGAAATACAGATGACTTCACCACAGAACTTTAGAATGGAGGCTCGGTTCTTCT  
GACATTCTTAATTACAGTGGAAATTTAATGGAGCCACCATTTCAGAACCAAAGAAATTTGGAACAACTTCACA  
AAGCTGGAAAAGAAAACCTATCCGAGGAAAGAAATATGATTACAGACTCTGATGATGATTAGAGCTCAATAATTCTT  
TGTAATTTGTCTTTTTTTTTCTGCTTCAGATTTAAATGTGTTTTTAAAATTCTATTAATGTCTATACATTGGTCA  
CCTAAATACTCATATTCTCGAGTTTTATACAGTTGTATCACATCGAAAAGTGCTTTACTGTTTTCTGTGTGGCC  
ATCATGTTTTAAGTTGAGGAAAACCTCAGTTCTTAAATTATCTGGGAAGGGTCTGGATTCTCTATTTTTGAGATTGA  
CTTTATCACAATATGATTCTTACATCTTTATACCATTTACAATTGTGTTTTAGATCTACAGAGTTAGAAATTCGA  
AACTATTCCAGGACTAATTCTTAATCGGCATTATTTATACAAGAGGTCAAGTAACATTTACTAGCGCAATACTG  
CACTTGTAATGAATTATAAACGCTCTTCTGGAATATATTTAAATAACCATTAAAGAAGCTGCTTATTCATTCTGG  
ACACTGCATGTTGATGTTGAATCAACTGATGCCAGCAGAAAGCTATTTTGATTTGTGAACATACTGCCTTATTTA  
AAGGGTCCTGATTGCTTGTATTTTAAGACATTCATTAAAAAGAAACCAGGAAACACTTTTGAAATAACAGCATAA  
GGAACCTTCACTGTCTCTGCTCAATAAAATACCTGTAACCTGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 830**

MEADASVDMFSKVLEHQLLQTTKLVEEHL DSEIQKLDQMDEDELERLKEKRLQALRKAQQQKQEWLSKGHGEYRE  
IPSERDFFQEVKESENVVCHFYRDSTFRCKILDRHLAILSKKHLETKFLKLNVEKAPFLCERLHIKVIPTLALLK  
DGKTQDYVVGFTDLGNITDDFTTETLEWRLGSSDILNYSGNLMEPPFQNQKKFGTNFTKLEKKTIRGKKYDSDSDD  
D

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**FIGURE 831A**

CGCGGGTCTGTGGAGAGCCGGGTGCGAGCGGCGGCAGCACGAGGGGAAAAGAGCTGAGCGGAGACCAAAGTCAGC  
CGGGAGACAGTGGGTCTGTGAGAGACCGAATAGAGGGGTGGGGCCACGAGCGCCATTGACAAGCAATGGGGAAAG  
AAACAGAAAAACAAGAGCGAAGACAGCACCAAGGATGACATTGATCTTGATGCCTTGGCTGCAGAAATAGAAGGA  
GCTGGTGTCTGCCAAAGAACAGGAGCCTCAAAAGTCAAAAGGGAAAAAGAAAAAGAGAAAAAAAGCAGGACTTT  
GATGAAGATGATATCCTGAAAGAACTGGAAGAATTGTCTTTGGAAGCTCAAGGCATCAAAGCTGACAGAGAACT  
GTTGCAGTGAAGCCAACAAGAAAAAATGAAGAGGAATTCACCTCAAAAGATAAAAAAAGAAAGGACAGAAAGGGC  
AAAAACAGAGTTTTTGATGATAATGATAGCGAAGAATTGGAAGATAAAGATTCAAATCAAAAAAGACTGCAAAA  
CCGAAAGTGAAATGTACTCTGGGAGTGATGATGATGATGATTTTTAACAACTTCTTAAAAAAGCTAAAGGGAAA  
GCTCAAAATCAAATAAGAAGTGGGATGGGTGAGAGGAGGATGAGGATAACAGTAAAAAATTAAAGAGCGTTCA  
AGAATAAATTCTTCTGGTGAAAGTGGTGATGAATCAGATGAATTTTTGCAATCTAGAAAAGGACAGAAAAAAAT  
CAGAAAAACAAGCCAGGTCCTAACATAGAAAAGTGGGAATGAAGATGATGACGCCTCCTTCAAAATTAAGACAGTG  
GCCCCAAAAGAAGGCAGAAAAAGAGGAGCGCGAGAGAAAAAGCGAGATGAAGAAAAAGCGAACTGCGGAAGCTG  
AAAGAAAAAGAAGAGTTAGAAACAGGTAAAAAGGATCAGAGTAAACAAAAGGAATCTCAAAGGAAATTTGAAGAA  
GAACTGTAAATCCAAAGTGACTGTTGATACTGGAGTAATTCCTGCCTCTGAAGAGAAAGCAGAGACTCCCACA  
GCTGCAGAAGATGACAATGAAGGAGACAAAAAGAAGAAAGATAAGAAGAAAAAGAAAGGAGAAAAAGGAAGAAAA  
GAGAAAGAGAAGAAAAAAGGACCTAGCAAAGCCACTGTTAAAGCTATGCAAGAAGCTCTGGCTAAGCTTAAAGAG  
GAAGAAGAAAGACAGAAGAGAGAAGAGGAAGAACGTATAAACGGCTTGAAGAATTAGAAGCCAAGCGTAAAGAA  
GAGGAACGATTGGAACAAGAAAAAAGAGAAAGGAAAAAGCAAAAAGAAAAAGAAAGAAAGAACGCTTGAAAAAA  
GAAGGGAAACTTTTTAACTAAATCCCAGAGAGAAGCCAGAGCCAGAGCCGAAGCTACTCTTAACTGCTACAAGCT  
CAGGGTGTGTAAGTGCCATCAAAAGACTCTTTGCCAAAGAAGAGGCCAATTTATGAAGATAAAAAAGAGGAAAAAA  
ATACCACAGCAGCTAGAAAGTAAAGAAGTGTCTGAATCAATGGAATTATGTGCTGCTGTAGAAGTTATGGAACAA  
GGAGTACCAGAAAAGGAAGAGACACCACCTCCTGTTGAACCAGAAGAAGAAGATACTGAGGATGCTGGATTG  
GATGATTGGGAAGCTATGGCCAGTGATGAGGAGACAGAAAAAGTAGAAGGAAACAAAGTTCATATAGAAGTAAAA  
GAAAACCTTGAAGAGGAGGAGGAGGAGGAAGAAGAGGAAGAAGAAGATGAAGAAAGTGAAGAAGAGGAGGAAGAG  
GAGGGAGAAAGTGAAGGCAGTGAAGGTGATGAGGAAGATGAAAAGGTGTCAGATGAGAAGGATTGAGGGAAGACA  
TTAGATAAAAAGCCAAGTAAAGAAATGAGCTCAGATTCTGAATATGACTCTGATGATGATCGGACTAAAAGAGAA  
AGGGCTTATGACAAAGCAAAACGGAGGATTGAGAAACGGCGACTTGAACATAGTAAAAATGTAAACACCGAAAAAG  
CTAAGAGCCCCTATTATCTGCGTACTTGGGCATGTGGACACAGGGAAGACAAAAATTCTAGATAAGCTCCGTCAC  
ACACATGTACAAGATGGTGAAGCAGGTGGTATCACACAACAAATTGGGGCCACCAATGTTCTCTTGAAGCTATT  
AATGAACAGACTAAGATGATTAATAAATTTTGATAGAGAGAATGTACGGATTCCAGGAATGCTAATTATTGATACT  
CCTGGGCATGAATCTTTTCAGTAATCTGAGAAATAGAGGAAGCTCTCTTTGTGACATTGCCATTTTAGTTGTTGAT  
ATTATGCATGGTTTGGAGCCCCAGACAATTGAGTCTATCAACCTTCTCAAATCTAAAAAATGTCCCTTCATTGTT  
GCACTCAATAAGATTGATAGGTTATATGATTGGAAGAAAGAGTCCTGACTCTGATGTGGCTGCTACTTTAAAGAA  
CAGAAAAAGAATACAAAAGATGAATTTGAGGAGCGAGCAAAGGCTATTATTGTAGAATTTGCACAGCAGGGTTTG  
AATGCTGCTTTGTTTTATGAGAATAAAGATCCCCGCCTTTTGTGTCTTTGGTACCTACCTCTGCACATACTGGT  
GATGGCATGGGAAGTCTGATCTACCTTCTTGTAGAGTTAACTCAGACCATGTTGAGCAAGAGACTTGCACACTGT  
GAAGAGCTGAGAGCACAGGTGATGGAGGTTAAAGCTCTCCCGGGGATGGGCACCACTATAGATGTCATCTTGATC  
AATGGGCGTTTGAAGGAAGGAGATACAATCATTGTTCTCGAGTAGAAGGGCCATTGTAACCTCAGATTGAGGC  
CTCCTGTTACCTCCTCTATGAAGGAATTACGAGTGAAGAACCAGTATGAAAAGCATAAAGAAGTAGAAGCAGCT  
CAGGGGGTAAAGATTCTTGAAAAGACCTGGAGAAAACATTGGCTGGTTTACCCCTCCTTGTGGCTTATAAAGAA  
GATGAAATCCCTGTTCTTAAAGATGAATTGATCCATGAGTTAAAGCAGACACTAAATGCTATCAAATTAGAAGAA  
AAAGGAGTCTATGTCCAGGCATCTACACTGGGTCTTTGGAAGCTCTACTGGAATTTCTGAAAACATCAGAAAGT  
CCCTATGCAGGAATTAACATTGGCCCAGTGCATAAAAAAGATGTTATGAAGGCTTCAGTGATGTTGGAACATGAC  
CCTCAGTATGCAGTAATTTTGGCCTTCGATGTGAGAATTGAACGAGATGCACAAGAAATGGCTGATAGTTTAGGA  
GTTAGAATTTTTAGTGCAGAAATTATTTATCATTTATTTGATGCCCTTACAAAATATAGACAAGACTACAAGAAA  
CAGAAACAAGAAGAATTTAAGCACATAGCAGTATTTCCCTGCAAGATAAAAAATCCTCCCTCAGTACATTTTTAAT  
TCTCGAGATCCGATAGTGATGGGGGTGACGGTGGAAGCAGGTGAGGTGAAACAGGGGACACCCATGTGTGTCCCA  
AGCAAAAATTTTGTGACATCGGAATAGTAACAAGTATTGAAATAAACCATAAACAAGTGGATGTTGCAAAAAAA

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**FIGURE 831B**

GGACAAGAAGTTTGTGTAAAAATAGAACCTATCCCTGGTGAGTCACCCAAAATGTTTGGAAGACATTTTGAAGCT  
ACAGATATTCTTGTTAGTAAGATCAGCCGGCAGTCCATTGATGCACTCAAAGACTGGTTCAGAGATGAAATGCAG  
AAGAGTGACTGGCAGCTTATTGTGGAGCTGAAGAAAGTATTTGAAATCATCTAATTTTTTCACATGGAGCAGGAA  
CTGGAGTAAATGCAATACTGTGTTGTAATATCCCAACAAAAATCAGACAAAAATGGAACAGACGTATTTGGACA  
CTGATGGACTTAAGTATGGAAGGAAGAAAAATAGGTGTATAAAATGTTTTCCATGAGAAACCAAGAACTTACAC  
TGGTTTGACAGTGGTCAGTTACATGTCCCCACAGTTCCAATGTGCCTGTTCACTCACCTCTCCCTTCCCCAACCC  
TTCTCTACTTGGCTGCTGTTTTAAAGTTTGCCCTTCCCCAAATTTGGATTTTTATTACAGATCTAAAGCTCTTTC  
GATTTTATACTGATTAAATCAGTACTGCAGTATTTGATTAACC

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**FIGURE 832**

CTTCCTTTCCAAC TTGGACGCTGCAGAAATGGCTCCCGCAAAGAAGGGTGGCGAGAAGAAAAAGGGCCGTTCTGCC  
ATCAACGAAGTGGTAACCCGAGAATACACCATCAACATTCACAAGCGCATCCATGGAGTGGGCTTCAAGAAGCGT  
GCACCTCGGGCACTCAAAGAGATTCGGAAATTTGCCATGAAGGAGATGGGAACTCCAGATGTGCGCATTGACACC  
AGGCTCAACAAAGCTGTCTGGGCCAAAGGAATAAGGAATGTGCCATACCGAATCCGTGTGCGGCTGTCCAGAAAA  
CGTAATGAGGATGAAGATTCACCAAATAAGCTATATACTTTGGTTACCTATGTACCTGTTACCACTTTCAAAAAT  
CTACAGACAGTCAATGTGGATGAGAACTAAATCGCTGATCGTCAGATCAAATAAAGTTATAAAATTGC

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**FIGURE 833**

MAPAKKGGEKKKGRSAINVVTREY TINIHKRIHGVGFKKRAPRALKEIRKFAMKEMGTPDVRI DTRLNKAVWAK  
GIRNVPYRIRVRLSRKRNEDEDSPNKLYTLVTYVPVTTFKNLQTVNV DEN



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**FIGURE 834**

**AT**CCCCGGCGGAGGGGCGAGCGCGGCGTCTGGCCGGCTTCTACCGCCGCGGAGCAAAGAGGGTCCCGGGAAGCG  
GCAGGGTCGGCGTCCAGGAGCGGGCTTCGGGGGCTCCGGCGGCGGAGAGGCGGAGCAAGCGGCCCGGGTCCGGG  
AGCGGAGGCCCTGGGGGCCCCGCGGCGAGGATGAGCTTGACCCCGAAGGAGCTCTCGAGCCTGCTGAGCATCATA  
TCGGAGGAGGCGGGCGGCGGCGAGCACCTTCGAGGGCCTGTCCACCGCCTTCACCACTACTTCAGCAAGGCCGAC  
CACTTCCGCCTGGGCTCGGTGCTCGTCATGCTGCTCCAGCAGCCGACCTGCTGCCTAGCGCGGCGCAGCGCCTC  
ACGGCGCTCTACCTGCTCTGGGAGATGTACCGCACCGAGCCGCTGGCCGCCAACCCCTTCGCCGCCAGCTTCGCG  
CACCTGCTCAACCCCGCGCGCCCGCCCGCGGCGGCCAGGAACCCGACCGCCCTCCGCTCTCAGGATTTTTACCT  
CCTATAACTCCACCAGAAAAGTTTTTCTTTCCAGCTGATGCTGGCACCCCCACGGGAACCTTCAAAAAGACG  
CCTCGCCAGATTGCACTGATGGACGTTGGAAACATGGGCCAGTCTGTGGACATTAGTGGGCTTCAGTTAGCCTTG  
GCCGAACGCCAATCTGAATTGCCAACGCAAAGCAAAGCGAGCTTCCCCAGTATTCTCAGTGACCCAGACCCGGAT  
TCTTCTAATTCTGGATTTGACAGCTCAGTTGCCTCTCAGATCACAGAAGCTTTAGTCAGCGGACCAAAGCCACCT  
ATTGAAAGCCATTTTCGACCAGAGTTTATTCGTCCACCGCCTCCACTCCACATTTGTGAGGATGAACTTGCTTGG  
CTAAACCCACGGAGCCTGACCACGCGATCCAGTGGGATAAATCGATGTGTGTTAAGAATAGCACTGGTGTGGAG  
ATCAAACGAATAATGGCCAAAGCCTTCAAAAAGCCCTTATCCTCTCCCCAACAAACACAGCTACTTGGTGAGTTG  
GAAAAAGACCCCAAACCTTGTCTACCATATTGGCCTCACCCAGCCAAACTTCCTGACCTTGTTGGAAAAACAACCCT  
TTAGTCGCTATAGAAATGTTGCTGAAATTAATGCAGTCAAGCCAGATCACTGAGTATTTCTCTGTCTGGTCAAT  
ATGGACATGTCTTTACATTCAATGGAAGTTGTAATCGACTAACTACAGCTGTTGATCTACCTCCTGAATTTATT  
CACCTTTATATATCAAATTGCATCTCTACTTGTGAACAGATTAAGGATAAATATATGCAGAATCGGTTGGTGCCT  
CTTGTGTGTGTGTTTCTCCAATCCTTGATCCGTAACAAAATTATTAATGTACAGGATTTGTTTATAGAAGTGCAG  
GCATTCTGTATTGAATTCAGTAGGATACGAGAAGCTGCTGGTCTTTTCCGGTTGTTGAAGACATTGGATACTGGG  
GAAACACCTTCTGAGACCAAAATGTCAAAAT**TAA**

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**FIGURE 835**

MPGGGASAASGRLLTAAEQRGSR EAAGSASRSGFGGSGGGRGGASGPGSGSGGPGGPAGRMSLTPKELSSLLSII  
SEEAGGGSTFEGGLSTAFHHYFSKADHFRLGSVLVMLLQQPDLLPSAAQRLTALYLLWEMYRTEPLAANPFAASFA  
HLLNPAPPARGGQEPDRPPLSGFLPPI TPPEKFFLSQLMLAPPREL FKKTPRQIALMDVGNMGQSVDISGLQLAL  
AERQSELPTQSKASFPSILSDPD PDSSNSGFDSSVASQITEALVSGPKPPIESHFRPEFIRPPPPLHICEDELAW  
LNPTEPDHAIQWDKSMCVKNSTGVEIKRIMAKAFKSPLSSPQQTQLLGELEKDPKLVYHIGLTPAKLPDLVENNP  
LVAIEMLLKLMQSSQITEYF SVLVNMDMSLHSM EVVNRLTTAVDLPPEFIHLYISNCISTCEQIKDKYMQNRLVR  
LVCVFLQSLIRNKIINVQDLFIEVQAF CIEFSRIREAAGLFRLKTLDTGETPSETKMSK

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**FIGURE 836**

AGGGTACGGGCGGGACCGCCGAGCCGGGGCGGGGGCACGGCAACCGCGAGGCCTGGGGGCGCCCGCCCCCG  
CGCCCCACGCCCCGGTGCCAGCGAGCCGAGGCGTGATCTCCTTATATGGTCAAATGACACGGCGGGGTTTCTCGA  
GGGCGGGAGCTGCGCAGCGCTCCACTCGGCCGGCAGCGGAGCCGCGAGCCACCAGCCGCCCGCGCCCTCCAGCCCC  
GTCCGGGAGTCCCCGGCCCCGTGCGGTGCCGTGAGTACCTCCAACCCCTGCGCCCCGGAGGGAGGCCGAGGGGC  
TTAGCCACCAGGGCTCGGAAGTGGGGGCCGAATCCGGTGCGAGACCCAAGGAGAGGGGAGCAGAGCCGGAGTTGG  
GGAGACTGTGGCTGAAAACCTGTGTCTTCCTGGAGACTAGGCTGGCATTTTGACTTTGGGACGGAGTCTCGCTTG  
TCGCCCAGGCTGGAGTGCACTGGCACGATCTCAGCTCACTGCAAGCTCTACCTCTTGGTTACGCCATTCTCCTG  
CCCCAGCCTCCCAAGTAGCTGGGACTACAGGTTGCTGAAAAGCCAGGAGTCAAAATGACTGAGCGCTTTGACTGC  
CACCATTGCAACGAATCTCTCTTTGGCAAGAAGTACATCCTGCGGGAGGAGAGCCCTACTGCGTGGTGTGCTTT  
GAGACCTGTTCGCCAACACCTGCGAGGAGTGTGGGAAGCCCATCGGCTGTGACTGCAAGGACTTGTCTTACAAG  
GACCGGCACTGGCATGAAGCCTGTTTCCACTGCTCGCAGTGCAGAACTCACTGGTGGACAAGCCCTTTGCTGCC  
AAGGAGGACCAGCTGCTCTGTACAGACTGCTATTCCAACGAGTACTCATCCAAGTGCCAGGAATGCAAGAAGACC  
ATCATGCCAGGTACCCGCAAGATGGAGTACAAGGGCAGCAGCTGGCATGAGACCTGCTTCATCTGCCACCGCTGC  
CAGCAGCCAATTGGAACCAAGAGTTTCATCCCCAAAGACAATCAGAAATTTCTGTGTGCCCTGCTATGAGAAACAA  
CATGCCATGCAGTGCCTTCAGTGCAAAAAGCCCATCACACGGGAGGGGTCACCTACCGGGAGCAGCCCTGGCAC  
AAGGAGTGCTTCGTGTGCACCGCCTGCAGGAAGCAGCTGTCTGGGCAGCGCTTCACAGCTCGCGATGACTTTGCC  
TACTGCCCTGAAGTCTTCTGTGACTTGTATGCCAAGAAGTGTGCTGGGTGCACCAACCCCATCAGCGGACTTGGT  
GGCACAAAATACATCTCCTTTGAGGAACGGCAGTGGCATAACGACTGCTTTAACTGTAAGAAGTGCTCCCTCTCA  
CTGGTGGGGCGTGGCTTCCTCACAGAGAGGGACGACATCCTGTGCCCCGACTGTGGGAAAGACATCTGAATTCAA  
CACAGAGAAGTTGCTGCTTGTGATCTCACACACAGATTTTATGTTTTCTTTCTACCCAGGCAATCTTGCCCTTC  
TGGTTTCTTCCAGCCACATTGAGACTTTCTTCTAGTGCTTTTCAGTGATACTCACGTTTGCTTAAACCCCTTTAGT  
GCTTTGTGATAGTTCACTCCAGGGAAAGAGAAAACTCGCCCTAGGCCCTAGGTGGGAAGATGGTTTGAAATTTT  
TGTAATCGAGTAAGGCACACCCAAATGTAAAAATCCTTTTGAAATGATGCCTTTATAAATCTTTCTCTACGTGCT  
ATTTAAGTGCAATTAACATATGTCACGAACCTTGAAAGTTTCTAAACTCAATAAGGTAATGACCAGTTGTTATTT  
ACAGCTCTGTAACTCCCGTTGCGTCAAGTCTAAACCAAGATTATGTGACTTGCAATAAAGTTATTTCAGAACAGA  
AAAAAAAAAAAAAAAAA

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**FIGURE 837**

MTERFDCHHCNESLFGKKYILREESPYCVVCFETLFANTCEECKPIGCDCKDLSYKDRHWHEACFHCSQCRNSL  
VDKPFAAKEDQLLCTDCYSNEYSSKCQECKKTIMPGTRKMEYKGSSWHETCFICHRCQQPIGTKSFIPKDNQNF  
VPCYEKQHAMQCVQCKKPITGGVITYREQPWHKECFVCTACRKQLSGQRFTARDDFAYCLNCFCDLYAKKCAGCT  
NPISGLGGTKYISFEERQWHNDCFNCKKCSLSLVGRGFLTERDDILCPDCGKDI

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**FIGURE 838**

AGTCTTCTGGCCCCGAGAGGGAGAGGTGGGGATAGGACCTTCCTTTAGTCCCCTCCGTAGTGGAACGAAGGATTCTTTATGGTCATCTGTGGTGTTTCATTTTCGTAAAGAAGCATCTGCAGGGTAAGAAGGAAAAACGTCCACCTTGCAAA  
TATATCCCAGGCACATGCCTCCTGAGAAAGTGACCCCCCTCCTCCCTCCGCCTCCCCCGGCACGTCTGGGGCTTCTCCAGTCTCCCGCTCCTGGGACCAGGCAGAGATCCCGGCGTGGGCAGACCCCTGCCACCGCGCCCCAGGCCTCGTCC  
GAAACTCGCGCCCCGAGAGCCCCACGCCGGAGGCGACGCTCCCGATAACTACTGTGCTCCCAAGACCCGGAGGGGCACGAAGAAAGGAGCCCTGGCAAAACAAAGGGTTGCTGAAAAGCCAGGAGTCAAAATGACTGAGCGCTTTGACTGCCAC  
CATTGCAACGAATCTCTCTTTGGCAAGAAGTACATCCTGCGGGAGGAGAGCCCCTACTGCGTGCGTGTGCTTTGAGACCCTGTTGCGCAACACCTGCGAGGAGTGTGGGAAGCCCATCGGCTGTGACTGCAAGGTACCTGCTGCGGGCCTC  
TGCGGGTCCCCGGCGCTCCCCTAGGAAACACGGGTTTCTCTGTGGTTTGTGCTGAAGCCCTGATCCACCACTGAA  
GTCTGTCTCTTGAGCCCCCTCTGAGGGGCGTGACCCCTGCGTGTAGCCTTTTCGGAAGCTTCTTCCCTCTAGCGAA  
TGTGATCTCTGCCCACAAGCACTGGGTGAGGGCCTTGCCAGGACTTTTGTGCTTAGTATCTCTAAGTACATTTTC  
TGTATTCTAGCAATTAGTGCCTTATCTAACTACCCAGCTGCCTACCAATACTGGAACCTTCTTAAGGGTGGTGC  
TCTCTTCCTCTTGTCTGTTTGCCCCGTGGTGAGTAACGTGGAGCAGGTGCTGTGCTCAGTCAATATTTGATGAAT  
GAATGTGTACATGAGAGAACCAGAGTTGGTTCCCTGGATAAATGGGCACATAAAAGCACAAAGTCCTTGG

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**FIGURE 839**

AAGGACTCCATGAAAGATGACAGAAGAAGTTATTGTGATAGCCAAGTGGGACTACACCGCCCAGCAGGACCAGGA  
GCTGGACATCAAGAAGAACGAGCGGCTGTGGTTGCTGGACGACTCCAAGACGTGGTGGCGGGTGAGGAACGCGGC  
CAACAGGACGGGCTATGTACCGTCCAACCTACGTGGAGCGGAAGAACAGCCTGAAGAAGGGCTCCCTCGTGAAGAA  
CCTGAAGGACACACTAGGCCTCGGCAAGACGCGCAGGAAGACCAGCGCGCGGGATGCGTCCCCCACGCCCAGCAC  
GGACGCCGAGTACCCCGCCAATGGCAGCGGCGCCGACCGCATCTACGACCTCAACATCCCGGCCTTCGTCAAGTT  
CGCCTATGTGGCCGAGCGGGAGGATGAGTTGTCCCTGGTGAAGGGGTGCGCGGTCACCGTCATGGAGAAGTGCAG  
CGACGGTTGGTGGCGGGGAGCTACAACGGGCAGATCGGCTGGTTCCCCTCCAACCTACGTCTTGGAGGAGGTGGA  
CGAGGCGGCTGCGGAGTCCCCAAGCTTCCTGAGCCTGCGCAAGGGCGCCTCGCTGAGCAATGGCCAGGGCTCCCG  
CGTGCTGCATGTGGTCCAGACGCTGTACCCCTTCAGCTCAGTCACCGAGGAGGAGCTCAACTTCGAGAAGGGGGA  
GACCATGGAGGTGATTGAGAAGCCGGAGAACGACCCCGAGTGGTGGAAATGCAAAAATGCCCCGGGGCCAGGTGGG  
CCTCGTCCCCAAAACTACGTGGTGGTCCCTCAGTGACGGGCCTGCCCTGCACCCTGCGCACGCCCCACAGATAAG  
CTACACCGGGCCCTCGTCCAGCGGGCGCTTCGCGGGCAGAGAGTGGTACTACGGGAACGTGACGCGGCACCAGGC  
CGAGTGCGCCCTCAACGAGCGGGGCGTGGAGGGCGACTTCCTCATTAGGGACAGCGAGTCCTCGCCCAGCGACTT  
CTCCGTGTCCCTTAAAGCGTCAGGGAAGAACAACACTTCAAGGTGCAGCTCGTGGACAATGTCTACTGCATTGG  
GCAGCGGGCGCTTCCACACCATGGACGAGCTGGTGGAACTACAAAAAGGCGCCCATCTTCACCAGCGAGCACGG  
GGAGAAGCTCTACCTCGTCAGGGCCCTGCAGTGACGGCGCCCCGGCCCCACACTCGCCTCCCGGGCCCCACGGTG  
GAGCTGCCCCGCCGCGCTTGTGGCAGAGGCTCCTCCGCGGGGACGGCCCCGACGGCTTCTCTG

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**FIGURE 840**

MTEEVIVIAKWDYTAQQDQELDIKKNERLWLLDDSKTWWRVNAANRTGYVPSNYVERKNSLKKGSLVKNLKD  
TLGLGKTRRKTSARDASPTPSTDAEYPANGSGADRIYDLNIPAFVKFAYVAEREDEL  
SLVKGSRTVMKCSGWWRGSYNGQIGWFPSNYVLEEVDEAAESP  
SFLSLRKASLSNGQGSRLHVVTLYPFSSVTEEELNFEKGETMEVI  
EKPENDPWWKCKNARGQVGLVPKNYVVLS  
DGPALHPAHAPQISYTG  
PSSGRFAGREWYYGNVTRHQAECALN  
ERGVEGDFLIRDSESSPSDFS  
VSLKASGKNKHFKVQLVDNVYCIGQRRFHTMDELVEHYKKAPIFTSEHGEKLYL  
VRALQ

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**FIGURE 841**

TGGAACCATGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCGTCCAACTGACAAGCCCTTGACCTGCC  
TCTCCAGGATGTCTACAAAATTGGTGGTATTGGTAGTGTTCCCTGTTGGCCGAGTGGAGACTGGTGTTCTCAAACC  
TGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACAGAAGTAAAATCTGTGCGAAATGCACCATGAAGCTTT  
GAGTGAAGCTCTTCCTGGGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTGATGGCAA  
CGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGTTTCACTGCTCAGGTGATTATCCTGAACCA  
TCCAGGCCAAATAAGCACTGGCTATGCCCCTGTATTGGATTGCCACACGGCTCATATTGCATGCAAGTTTGCTGA  
GCTGAAGGAAAAGATTGATCACCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTCTTCTTTGGGTTGCTTTG  
CTGTTTCGTGATATGAGACAGATAGTT



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**FIGURE 842**

AAAAGCCAAAATGGGAAAGGAAAAGACTCATACCAACATTGTCGTCATTGGACACATAGATTCTGGGCAAGTCCAC  
CACTACTGGCCATCTGATCTACAAAGGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGC  
TGAGATGGGAAAGGGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGTGTGAACATGGTATCAC  
CATTGATACCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATCGTTGATGCCCCAGGACACAGAGA  
CTTCATCAAAAACATGATTACAGAGACATCTCAGGCTGACTGTGCTGTCCTGATTGTTGCTGCTGGTGTGGTGA  
ATTTGAAGCTGGTATCTCCAAGAATGGGCAAACCCAAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACA  
ACTAATTGTTGGTGTTAACAAAATGGATTCTACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAACTACAAA  
ATTGGTGGTATTGGTAGTGTTCTGTTGGCCGAGTGGGAGACTGGTGTCTCAAACCTGGTATGGTGGTCACCTTT  
GCTCCAGTCAACGTTACAACAGAAGTAAAATCTGTCGAAATGCACCATGAAGCTTTGAGTGAAGCTCTTCCTGGG  
GACAATGTGG

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**FIGURE 843**

AACAGATCTTCATGAATGTCGCTATCTTTGAGGATGAAGTTTTTGTGGAGTTACCACACACCAGGAACCTCTTTC  
CACACAGCCTGCTGAGTGTGATTGCCAACTTCATCCCTTTCTCTGATCTCAACCAGAGTCCACGGAACATGTACC  
AATGCCAGATGGGTAAGCAAACATATGGGCTTTCCACTTCTCACTTATCAAGACCGATCGGATAACAAACTGTATC  
GTCTTCAGACTCCTCAGAGTCCCTTGGTGAGACCCTCCATGTATGATTATTATGACATGGATAACTATCCAATTG  
GGACCAATGCCATCGTTGCTGTGATTTCTTACACTGGCTATGATATGGAAGATGCCATGATTGTGAATAAGGCCT  
CTTGGGAACGAGGCTTTGCCCATGGAAGTGTCTACAAGTCTGAGTTCATAGACCTCTCTGAAAAAATTAAACAAG  
GAGATAGTAGCCTGGTGTGTTGGCATCAAACCTGGTGACCCACGCGTTCTGCAGAAGTTAGATGACGATGGATTGC  
CGTTTATAGGAGCAAACTGCAGTACGGAGATCCGTATTACAGCTACCTCAACCTCAACACCGGGGAAAGTTTTG  
TGATGTACTATAAGAGTAAAGAAAAATTGTGTTGTGGATAACATCAAAGTGTGCAGTAATGACACTGGGAGTGGA  
AATTCAAGTGTGTTTGCATCACTATGAGAGTGCCTCGGAACCCAACTATCGGAGATAAATTTGCCAGTCGCCATG  
GGCAGAAGGGCATTTTAAGCAGATTGTGGCCGGCTGAGGACATGCCTTTTACTGAGAGTGGGATGGTCCCAGACA  
TTCTGTTCAATCCCCATGGTTTTTCCATCCCGCATGACCATTGGGATGTTAATTGAGAGTATGGCCGGGAAGTCTG  
CAGCTTTGCATGGTCTCTGCCATGATGCTACACCTTCATCTTCTCAGAGGAGAACTCGGCCTTAGAATACTTTG  
GTGAGATGTTAAAGGCTGCTGGCTACAATTTCTATGGCACCAGAGGTTATATAGTGGCATCAGTGGGCTAGAAC  
TGGAAGCAGACATCTTCATAGGAGTGGTTTATTATCAGCGTTACGCCATATGGTCTCAGACAAATTTCAAGTAA  
GGACAACCTGGAGCCCAGACAGAGTCACCAACCAGCCTATTGGGGGAAGAAATGTCCAGGGTGAATCCGTTTTG  
GGGAGATGGAACGGGATGCGCTTTTAGCTCATGGTACATCTTTTCTCCTTCATGACCGCCTCTTCAACTGCTCAG  
ATCGGTGCGGTAGCCCATGTGTGTGAAGTGTGGCAGTTACTCTCTCCACTGTTGGAGAAGCCACCCCTTCTTGG  
TCTGCCATGCGCAACAGAAAATACAACCTGTACTCTGTGTAGTCGCGAGTGACACTATCGATACTGTTTCTGTGCCT  
TATGTTTTTTCGGTATTTTGTAGCTGAACTGGCAGCTATGAACATCAAAGTGAACTGGATGTTGTTAACTTGAT  
GTTGACCTTTTGGATTAAAGGGGACTATCAGATTAAAGCAAAATGTAATTTTAATTCAATGAAGATATCATTACCA  
GGTTACTCTTGAGATTTTCAACGGTGTAGAACTCTCAACCAAGACCTGAAAACCAAGTATGCAAGGTTTCTGA  
ATCTCTCTGGTAGATTAACTATTGACAATGATTTTCTGTTATCTTTGTTCAAAAAGTTCATGTCTTCTCAAAAATA  
TGAAATATTGATAAATGGAAGAGCATACGGTGACAAGTCTCCTTTCCAACCCAGGTTCCCTACACCTGCTCTC  
AGCAGGCAGTGAGTGTACACACCTGTTAATCCATCTTGAGCAGGACAGTACTATACAAATAGAATGCAAGCTGT  
AATGTAATTTTATATTTTCTTATAGCCACGTTGAAGTAAAAACAAACAGGTACAGTGTTTTTTACCAGCTTTATA  
GAAGTACAGTTGTTACATATTTAATGAATACAATTTGATGGGTCTGACTATATGCACACACCTTTGATACCATCA  
CCACAATCAGGGTAATAAACATACCTGTCATCTCCACAAGTTTCCTCCTGCCCTTTGTTTTTGTCTTTTGGTT  
GCTGTTGAGTTTTTGTCTTCTGTGGTAAGAACACTTAACTCAAGACCTACCCTCTTAACAAATCTTTAAG  
TGCACGATATAGTATTGTTAATTCCAGGCACCATGTTGTACAACAGATCTTTAGACCTTACTTGTCTTGCATAAC  
TGAAGCTTTATACCTGTTGAACAACCTCTCCATTTCCCTGGCCCCCTAGCAACCACCTTCTACCCTGTTTCTATGA  
GTTTGACTATTACAGATATCTCATATAGTGGGATCATGCAATATTTGTCTGTGACTGGCTTATTTCACTTAGCA  
TAGTGAATAAGATTTCATCCATTTTGAAGCCAGGCATGGTGTGTGCATCTATAGTCCCTGCTATTTGAGAGGC  
TGAGGTGGGAGGATCATTTGAGTGCAGGAGTTCAAGGACAGCCTGGGTAATATAGGAAGACCCTGTCTTGAAGAC  
CCTGACCTCAAGTGATCCACCCACCTCGGCCTCCGAAAGTGTAGGATTACAGGTGTGAGCCACTGTGCCTGGCC  
TCCGGTGAGTATTTTATATTTAGTCTACACTTCCATACTTGGCTTTTTTCTGCTTTTATGTTGATCTGCTTTTCA  
AGCAGTGTGTAGAGTGCCACTTATGTTTTCTTTCTTGTGTACAGTATTTTATTGTATGGATTTACCATCCCCTGT  
GTATTTAAGTTGTTCCATTCTTTGGCCATTATAACTTTTTCTGCAAATATTCTGGTGACTTATCTTTGGCCATT  
ATAAACTGTTGATAATAAAAAAAAAAAAAAAAAA

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**FIGURE 844**

MNVAIFEDEVFAGVTTHQELFPHSLLSVIANFIPFSDLNQSPRNMYYCQMGKQTMGFPLLTYYQDRSDNKLYRLQT  
PQSPLVRPSMYDYDMDNYPIGTNAIVAVISYTGDMEDAMIVNKASWERGFAHGSAVKSEFIDLSEKIKQGDSS  
LVFGIKPGDPRVLQKLDDGLPFIGAKLQYGDPIYSYLNLTGESFVMMYKSKENCVVDNIKVCSNDTGSGKFKC  
VCITMRVPRNPTIGDKFASRHGQKGILSRLWPAEDMPFTESGMVPDILFNPHGFPSRMTIGMLIESMAGKSAALH  
GLCHDATPFIIFSEENSALEYFGEMLKAAGYNFYGTERLYSGISGLELEADIFIGVVYYQRLRHMVSDKFQVRTTG  
ARDRVNTQPIGGRNVQGGIRFGEMERDALLAHGTSFLLHDLRFNCSDRSVAHVCEVWQFTLSTVGEATPFLVCHA  
QQKIQLYSV

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**FIGURE 845**

GAGCTGTCCCCGGTGCCGCCGACCCGGGCCGTGTGCCCGTGGCTCCAGCCGCTGTGCGCTCGATCTCCTCGTCTC  
CCGCTCCGCCCTCCCTTTTCCCTGGATGAACTTGCCTCCTTTCTCTTCTCCGCCATGGAATTCTGCTCCGTGCTT  
TTAGCCCTCCTGAGCCAAAGAAACCCAGACAACAGATGCCCATACGCAGCGTATAGCAGTAACTCCCCAGCTCG  
GTTTCTGTGCCGTAGTTTACAGTATTTAATTTTATATAATATATATTATTTATTATAGCATTTTGGATACCTCAT  
ATTCTGTTTACACATCTTGAAAGGCGCTCAGTAGTTCTCTTACTAAACAACCACTACTCCAGAGAAATGGCAACGC  
TGATTACCAGTACTACAGCTGCTACCGCCGCTTCTGGTCCTTTGGTGGACTACCTATGGATGCTCATCCTGGGCT  
TCATTATTGCATTTGTCTTGGCATTCTCCGTGGGAGCCAATGATGTAGCAAATTCCTTTTGGTACAGCTGTGGGCT  
CAGGTGTAGTGACCCTGAAGCAAGCCTGCATCCTAGCTAGCATCTTTGAAACAGTGGGCTCTGTCTTACTGGGGG  
CCAAAGTGAGCGAAACCATCCGGAAGGGCTTGATTGACGTGGAGATGTACAACCTCGACTCAAGGGCTGCTGATGG  
CCGGCTCAGTCAGTGCTATGTTTGGTCTGCTGTGTGGCAACTCGTGGCTTCGTTTTTGAAGCTCCCTATTTCTG  
GAACCCATTGTATTGTTGGTGCAACTATTGGTTTCTCCCTCGTGGCAAAGGGGCAGGAGGGTGTCAAGTGGTCTG  
AACTGATAAAAATTGTGATGTCTTGGTTCGTGTCCCCACTGCTTTCTGGAATTATGTCTGGAATTTTATTCTTCC  
TGGTTCGTGCATTCATCCTCCATAAGGCAGATCCAGTTCCTAATGGTTTGGAGCTTTGCCAGTTTTCTATGCCT  
GCACAGTTGGAATAAACCTCTTTTCCATCATGTATACTGGAGCACCGTTGCTGGGCTTTGACAAACTTCCTCTGT  
GGGGTACCATCCTCATCTCGGTGGGATGTGCAGTTTTCTGTGCCCTTATCGTCTGGTCTTTGTATGTCCCAGGA  
TGAAGAGAAAAATTGAACGAGAAAAATAAGTGTAGTCCTTCTGAAAGCCCTTAATGGAAGAAAAAGAAATAGCTTGA  
AAGAAGACCATGAAGAAACAAAGTTGTCTGTTGGTGATATTGAAACAAGCATCCTGTTTCTGAGGTAGGGCCTG  
CCACTGTGCCCTCCAGGCTGTGGTGGAGGAGAGAACAGTCTCATTCAAACCTGGAGATTGGAGGAAGCTCCAG  
AGAGAGAGAGGCTTCCCAGCGTGGACTTGAAAGAGGAAACCAGCATAGATAGCACCGTGAATGGTGCAGTGCAGT  
TGCCTAATGGGAACCTTGTCCAGTTCAGTCAAGCCGTCAGCAACCAATAAACTCCAGTGGCCACTACCAGTATC  
ACACCGTGCATAAGGATTCCGGCCTGTACAAAGAGCTACTCCATAAATTACATCTTGCCAAGGTGGGAGATTGCA  
TGGGAGACTCCGGTGACAAACCTTAAGGCGCAATAATAGCTATACTTCTTATACCATGGCAATATGTGGCATGC  
CTCTGGATTCAATCCGTGCCAAAGAAGGTGAACAGAAGGGCGAAGAAATGGAGAAGCTGACATGGCCTAATGCAG  
ACTCCAAGAAGCGAATTCGAATGGACAGTTACACCAGTTACTGCAATGCTGTGTCTGACCTTCACTCAGCATCTG  
AGATAGACATGAGTGTCAAGGCAGAGATGGGTCTAGGTGACAGAAAAGGAAGTAATGGCTCTCTAGAAGAATGGT  
ATGACCAGGATAAGCCTGAAGTCTCTCTCCTCTTCCAGTTCCTGCAGATCCTTACAGCCTGCTTTGGGTCATTCTG  
CCCATGGTGGCAATGACGTAAGCAATGCCATTGGGCCTCTGGTTGCTTTATATTTGGTTTTATGACACAGGAGATG  
TTTCTTCAAAGTGGCAACACCAATATGGCTTCTACTCTATGGTGGTGTGGTATCTGTGTTGGTCTGTGGGTTT  
GGGGAAGAAGAGTTATCCAGACCATGGGGAAGGATCTGACACCGATCACACCCTCTAGTGGCTTCAGTATTGAAC  
TGGCATCTGCCCTCACTGTGGTGATTGCATCAAATATTGGCCTTCCCATCAGTACAACACATTGTAAAGTGGGCT  
CTGTTGTGTCTGTTGGCTGGCTCCGGTCCAAGAAGGCTGTTGACTGGCGTCTCTTTTCGTAACATTTTTATGGCCT  
GGTTTGTACAGTCCCCATTTCTGGAGTTATCAGTGTCTGCCATCATGGCAATCTTCAGATATGTCATCCTCAGAA  
TGGAAGCTGTTTGAGATTAATAATTTGTGTCAATGTTTGGGACCATCTTAGGTATTCTGCTCCCTGAAGAATG  
ATTACAGTGTAAACAGAAGACTGACAAGAGTCTTTTTATTGGGAGCCAGAGGAGGGAAGTGTACTTGTGCTAT  
AACTGCTTTTGTGCTAAATATGAATTGTCTCAAATTAGCTGTGTAATAAGCCGGGTTCCACTGGCTCCTGCT  
GAGGTCCCCTTTCTTCTGGGCTGTGAATTCCTGTACATAATTTCTCTACTTTTTGTATCAGGCTTCAATTCCATT  
ATGTTTTAATGTTGTCTCTGAAGATGACTTGTGATTTTTTTTTTTTTTTTTTAAACCATGAAGAGCCGTTTGACA  
GAGCATGCTCTGCGTTGTTGGTTTACCAGCTTCTGCCCTCACATGCACAGGGATTAAACAACAAAAATATAACT  
ACAACCTCCCTTGTAGTCTCTTATATAAGTAGAGTCCCTGGTACTCTGCCCTCCTGTCAGTAGTGGCAGGATCTA  
TTGGCATATTCCGGGAGCTTCTTAGAGGGATGAGGTTCTTTGAACACAGTGAAAATTTAAATTAGTAACTTTTTTG  
CAAGCAGTTTATTGACTGTTATTGCTAAGAAGAAGTAAGAAAGAAAAAGCCTGTTGGCAATCTTGGTTATTTCTT  
TAAGATTTCTGGCAGTGTGGGATGGATGAATGAAGTGAATGTGAACCTTGGGCAAGTTAAGTGGGACAGCCTTC  
CATGTTCAATTTGTCTACCTCTTAAGTGAATAAAAAAGCCTACAGTTTTTAG

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**FIGURE 846**

MATLITSTTAATAASGPLVDYLWMLILGFIIAFVLAFSVGANDVANSFGTAVGSGVVTLKQACILASIFETVGSV  
LLGAKVSETIRKGLIDVEMYNSTQGLLMAGSVSAMFGSAVWQLVASFLKLPISGTHCIVGATIGFSLVAKGQEGV  
KWSELIKIVMSWFVSPLLSGIMSGILFFLVRAFILHKADFPNGLRALPVFYACTVGINLFSIMYTGAPLLGFDK  
LPLWGTILISVGCAVFCALIVWFFVCPRMKRKIEREIKCSPSESPLEKKNSLKEDHEETKLSVGDIENTKHPVSE  
VGPATVPLQAVVEERTVSFKLGDLEEAPERERLPSVDLKEETSIDSTVNGAVQLPNGNLVQFSQAVSNQINSSGH  
YQYHTVHKDSGLYKELLHKLHLAKVGDCMGDSGDKPLRRNNSYTSYMAICGMPLDSFRAKEGEQKGEEMEKLTW  
PNADSKKRIRMDSYTSYCNVSDLHSASEIDMSVKAEMGLGDRKGSNGSLEEWYDQDKPEVSLLFQFLQILTACF  
GSFAHGGNDVSNAGPLVALYLVDYTDGDVSSKVATPIWLLLYGGVGICVGLWVWGRRVITQTMGKDLTPITPSSGF  
SIELASALTVVIASNIGLPISTTHCKVGSVSVGWLRSKKAVDWRLFRNIFMAWFVTVPISGVISAAIMAFRYV  
ILRM

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**FIGURE 847**

ACCAACCTCTTCGAGGCACAAGGCACAACAGGCTGCTCTGGGATTCTCTTCAGCCAATCTTCATTGCTCAAGTGT  
CTGAAGCAGCCATGGCAGAAGTACCTGAGCTCGCCAGTGAAATGATGGCTTATTACAGTGGCAATGAGGATGACT  
TGTTCTTTGAAGCTGATGGCCCTAAACAGATGAAGTGCTCCTTCCAGGACCTGGACCTCTGCCCTCTGGATGGCG  
GCATCCAGCTACGAATCTCCGACCACCACTACAGCAAGGGCTTCAGGCAGGCCGCGTCAGTTGTTGTGGCCATGG  
ACAAGCTGAGGAAGATGCTGGTTCCTGCCCACAGACCTTCCAGGAGAATGACCTGAGCACCTTCTTTCCCTTCA  
TCTTTGAAGAAGAACCTATCTTCTTCGACACATGGGATAACGAGGCTTATGTGCACGATGCACCTGTACGATCAC  
TGAAGTGCACGCTCCGGGACTCACAGCAAAAAAGCTTGGTGATGTCTGGTCCATATGAACTGAAAGCTCTCCACC  
TCCAGGGACAGGATATGGAGCAACAAGTGGTGTCTCCATGTCCTTTGTACAAGGAGAAGAAAGTAATGACAAAA  
TACCTGTGGCCTTGGGCCTCAAGGAAAAAGTCTGTACCTGTCCTGCGTGTTGAAAGATGATAAGCCCACTCTAC  
AGCTGGAGAGTGTAGATCCCCAAAAATTACCCAAAGAAGAAGATGGAAAAGCGATTTGTCTTCAACAAGATAGAAA  
TCAATAACAAGCTGGAATTTGAGTCTGCCCAGTTCCTCAACTGGTACATCAGCACCTCTCAAGCAGAAAACATGC  
CCGTCTTCTGGGAGGGACCAAAGGCGGCCAGGATATAACTGACTTCACCATGCAATTTGTGTCTTCTCTAAAGAG  
AGCTGTACCCAGAGAGTCTGTGCTGAATGTGGACTCAATCCCTAGGGCTGGCAGAAAGGGAACAGAAAGGTTTT  
TGAGTACGGCTATAGCCTGGACTTTCTGTGTCTACACCAATGCCCAACTGCCTGCCTTAGGGTAGTGCTAAGA  
GGATCTCCTGTCCATCAGCCAGGACAGTCAGCTCTCTCCTTTTCAGGGCCAATCCCCAGCCCTTTTGTGAGCCAG  
GCCTCTCTCACCTCTCCTACTCACTTAAAGCCCGCCTGACAGAAACCACGGCCACATTTGGTTCTAAGAAACCCT  
CTGTCAATTCGCTCCACATTCTGATGAGCAACCGCTTCCCTATTTATTTATTTATTTGTTTGTGTTTATTCA  
TTGGTCTAATTTATTCAAAGGGGGCAAGAAGTAGCAGTGTCTGTAAAAGAGCCTAGTTTTTAATAGCTATGGAAT  
CAATTCATTTGGACTGGTGTGCTCTCTTTAAATCAAGTCCTTTAATTAAGACTGAAAATATATAAGCTCAGATT  
ATTTAAATGGGAATATTTATAAATGAGCAAATATCATACTGTTCAATGGTTCTGAAATAAACTTCTCTGAAG

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**FIGURE 848**

MAEVP ELASEMMAYYS GNEDDLFFEADGPKQMKCSFQDLDLCPLDGGIQLRISDHHSYSGFRQAASVVVAMDKLR  
KMLVPCPQTFQENDLSTFFPFI FEEEP IFFDTWDNEAYVHDAPVRS LNCTLRDSQQKSLVMSGPYELKALHLQGQ  
DMEQQVVF SMSFVQGEESNDKIPVALGLKEKNLYLSCVLKDDKPTLQLESVDPKNYPKKKMEKRFVFNKIEINN  
LEFESAQFPNWIISTSAENMPVFLGGTKGGQDITDFTMQFVSS

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**FIGURE 849**

AGGCACCATGACTCCTGTGAGGATGCAGCACTCCCTGGCAGGTCAGACCTATGCCGTGCCCTCATCCAGCCAGA  
CCTGCGGTGAGAGGAGGCCGTCCAGCAGATGGCAGATGCCCTGCAGTACCTGCAGAAGGTCTCTGGAGACATCTT  
CAGCAGTGAGAGCGGCCCTTGCTGCGGCCAAAGAACATGGAAGCATGAGTGGGGTGATGTGTGCCTTAAAGCAT  
CAGACACTTGGGCCTCGGGCATCAGGAGCCAGCCACAGGGATGTCTGGGGAAATGGCGTTCCATGAGATGCAAGC  
ACACAAGAATGCACTTGGCACATCTGGGGAACAGCAGGCAGCTGATATCACTGGGCCCACCCTGCACCAGGGAGG  
ATGGAAGCAGGTAGAGCAGAGCCGGAGCCAGGTGCAGGCCATTGGAGAGAAGGTCTCCTTGGCCCAGGCCAAGAT  
TGAGAAGATCAAGGGCAGCAAGAAGGCCATCAAGGTGTTCTCCAGTGCCAAGTACCCTGCTCCAGAGCGCCTGCA  
GGAATATGGCTCCATCTTCACGGGCGCCCAGGACCCTGGCCTGCAGAGACGCCCCGCCACAGGATCCAGAGCAA  
GCACCGCCCCCTGGACGAGCGGGCCCTGCAGGAGAAGCTGAAGGACTTTCCTGTGTGCGTGAGCACCAAGCCGGA  
GCCCGAGGACGATGCAGAAGAGGGACTTGGGGGTCTTCCAGCAACATCAGCTCTGTCAGCTCCTTGCTGCTCTT  
CAACACCACCTAGAACCT



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**FIGURE 850**

AGCGCGGGGAACCGGAGGCTGCAGGATGGTCAAGCTGACGGCGGAGCTGATCGAGCAGGCGGCGCAGTACACCA  
ACGCAGTGCGCGACCGGGAGCTGGACCTCCGGGGGTATAAAATTCCCGTCATTGAAAATCTAGGTGCTACGTTAG  
ACCAGTTTGATGCTATTGATTTTCTGACAATGAGATCAGGAACTGGATGGTTTTCTTTGTTGAGAAGACTGA  
AAACATTGTTAGGGAACAACAACAGAATATGCCGTATAGGTGAGGGACTTGATCAGGCTCTGCCCTGTCTGACAG  
AACTCATTCTACCAATAATAGGCTCGTGGAACCTGGGTGATCTGGACCCTCTGGCATCTCTCAAATCGCTGACTT  
ACCTAAGTATCCTAAGAAATCTGGTAACCAATAAGAAGCATTACAGATTGTATGTGATTTATAAAGTTCCGCAAG  
TCAGAGTACTGGATTTCCAGAAAGTGAACTAAAAGTTTAAATCCAGGTGCTGGTTTGCCAACTGACAAAAAGAA  
AGGTGGGCCATCGCCAGGGGATGTAGAAACAATCAAGAATGCTATAGCAAATGCTTCAACTCTGGCTGAAGTGGA  
GCGGCTGAAGGGGTTGCTGCAGTCTGGTCAGATCCCTGGCAGAGAACGCAAATCGGGGCC

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**FIGURE 851A**

GATGGGCTGTGCAAAGGGCGCGGCTGCTGAGGACAGGGCTGTGGCTGGAGAACCTGCTGCTTCCTGAAGCCGAGC  
CCCACCTAAAGGACCGAGAGCACAGGCCATGGGAGAGGAATCGAGTAGGGATGCAGAGCCTGGTGGCACTGTCC  
TGAGAGAGGAGGAGGCTGGGCAGGGCCCCGGCGCTGGAGAGGTGCCCTGCATATGGGACCTCTCAGAGGTGCACA  
AGAGCTGTGTGCCAGGTACCCCTGTCTCCTCTCCTCCTCCAGCCCCCAGCCTACTCTCCTAATGGTCTGTGTCT  
TTCAGGGATGAGATTTACTGCCAGATCTGCAAGCAGCTCTCGGAGAACTTCAAAACAAGCAGCCTGGCCCCGGGGC  
TGGATCCTGCTCAGCCTCTGCCTCGGCTGCTTCCCACCCTCAGAGAGGTTTCATGAAGTATCTACTGAACCTTCATC  
GGCCÀAGGGCCGGCGACCTACGGCCCCCTTCTGTGCCGAGCGCCTGAGACGCACCTATGCCAATGGGGTGCCTGCG  
GAGCCCCCACCTGGCTGGAGCTGCAGGCTGTCAAGTCCAAGAAGCACATCCCCATCCAAGTCATCTTGGCCACT  
GGAGAGAGCCTAACCGTCCCCGTGGACTCAGCCTCCACATCTCGGGAAATGTGCATGCACATCGCTCACAAGCAG  
GGCCTCAGCGACCACCTGGGCTTCTCCCTCCAGGTGCGCGTGTACGACAAGTTCTGGTCCCTGGGCAGCGGGCGC  
GACCACATGATGGATGCCATCGCCCGGTGTGAGCAGATGGCCCAGGAGAGGGGCGAGAGCCAGCGCCAGTCACCC  
TGGCGCATCTACTTCCGGAAGGAATTCTTACCCCCCTGGCACGACTCCCGGGAGGACCCTGTCAGCACCGAGCTT  
ATTTACCGCCAAGTCTCCGAGGAGTCTGGTCTGGCGAGTACAGCTTCGAGAAGGAGGAAGAGCTGGTTGAGCTG  
CTGGCCCCGCACTGCTACGTGCAGCTCGGCGCCTCAGCAGAGAGCAAGGCTGTCCAGGAGCTGCTGCCAGCTGC  
ATCCCCCACAAGCTGTACAGGACCAAGCCCCCAGACAGGTGGGCGAGCCTCGTCACTGCCGCTGCGCCAAGGCC  
CCATACACTCAGAAGCAAGTCACACCACTGGCCGTGCGAGAGCAGGTGGTGGACGCCGCCCGCCTGCAGTGGCCG  
CTGCTCTTCTCCCGGCTCTTCAAGTCATCACACTCTCAGGCCCCCGCCTGCCCAAGACGCAGCTGATCTTGGCT  
GTAACTGGAAGGGGCTTTGCTTCTGGACCAGCAGGAGAAGATGCTGCTGGAACCTCTCTTCCCAGAGGTGATG  
GGTCTGGCCACCAACAGGGAGGCCAGGGCGGGCAGAGGCTGCTGCTCTCCACGATGCATGAGGAGTACGAGTTT  
GTGTACCCAGCAGTGTGGCCATCGCTGAGCTGGTGGCCCTGTTCTGGAGGGCCTGAAGGAGAGGTCCATTTTC  
GCCATGGCCCTGCAAGGACAGGAAGGCCACAGATGACACCACCCTCCTGGCCTTCAAGAAGGGGGACCTGTTGGTC  
CTCACAAGAAGCAGGGGCTGCTGGCTCTGAGAACTGGACCCTCGGCCAGAACGACAGGACAGGCAAGACGGGG  
CTGGTGGCCATGGCCTGCCTCTACACCATCCCCACGGTCACTAAGCCCTCGGCACAGCTGCTGAGCTTGCTTGCC  
ATGTCACCAGAGAAGAGGAAGCTGGCGGCTCAGGAGGGGAGTTACAGAGCCACGTCTGAGGAGCCACCCAAG  
GAAAAGCTGCACACCCTGGAGGAGTTCTCCTATGAGTTCTTACAGGGCTCCAGAGAAGGACATGGTGAGCATGGCC  
GTGCTGCCCCCTGGCCCGTGCCCGTGGCCACCTGTGGGCTATTCTGCGAGCCGCTGCGACAGCCGCTGCTCAAG  
CGAGTCCACGCCAACGTGACCTCTGGGACATCGCCTGCCAGATCTTGTGCGCATCCTCCGGTACATGGGCGAC  
TACCCTTCTCGGCAGGCCTGGCCACCCTGGAGCTACCGACCAGATCTTCACACTGGCCCTGCAGCACCCGGCC  
CTCCAGGACGAGGTCTACTGCCAGATCCTGAAGCAGCTGACGCACAACCTCCAACAGGCACAGCGAAGAGCGGGC  
TGGCAGCTGCTGTGGCTGTGCACGGGCTCTTCCCGCCAGCAAGGGGCTGCTGCCCCATGCCAGAAGTTTATA  
GACACTCGGAGGGGGAAGCTGCTGGCCCCGACTGCAGCCGCCGAATCCAGAAGGTCTGAGGACGGGGCCCCGG  
AAGCAGCCCCCGCACAGGTGGAGGTGGAGGCGCAGAGCAGAACGTCTCCCGCATCTGCCACAAGATCTACTTC  
CCCAATGACACCAGTGAGATGCTGGAGGTGGTTGCCAACACACGGGTGCGGGATGTGTGTGACAGCATTGCCACC  
AGGCTGCAGCTGGCCTCCTGGGAGGGCTGCAGCCTCTTCATCAAGATTTTCAGACAAGGTGGGCCGGGCTGGGGCT  
GGGCAGACGGTGGGCGGACGGGCAGTGAGCGAGGCCCTAGGTGCTGCCTGTGGGGGCTCAGCCTACCAGGGGCA  
CCATGCTGGACCAGGCTGCACGGCCAGGGCTGCTGGGACAGAGGTAGGTGGGGTCTTGAGCAGAGCCAGCTCC  
ACACGCCAATAGCCACGCACAGCCGACTCCAGCGCAGCACCCAGGCCGTAGGCGGCCACTGGACCAGAACCAG  
CAGGTTCTCAGGAGGACAGTCCCCGGAAGCCACCCAACCTCCCTGTACCTTCCCCTTCCCCAGGTATCAGCCAG  
AAGGAGGGAGACTTCTTCTTTGATTCTTGAGGGAGGTGTCTGACTGGGTGAAGAAGAACAAGCCCCAGAAAGAA  
GGGGCCCCCGTGACGCTCCCCCTACCAGGTGTACTTCATGCGGAAATTGTGGCTCAACATATCTCCAGGGGAAGGAT  
GTGAATGCAGACACCATACTCCATTACCACAGGAGTGCCTAAGTACCTGCGCGGATTCCACAAGTGTTCGCGG  
GAGGATGCCATCCACCTGGCGGGCCTCATCTACAAGGCCAGTTCAACAACGACCGGTCCAGCTGGCTAGTGT  
CCCAAGATCCTGAGGGAACCTGGTGCCTGAGAACCTCACACGCTGATGTCTCGGAGGAGTGAAAAAGAGCATC  
CTTCTAGCCTATGACAAGCATAAGGACAAGACAGTGGAGGAGGCCAAGGTGGCCTTCTGAAAGTGGATCTGCCGG  
TGGCCACCTTCGGATCCGCCTTCTTCGAGGTGAAGCAAACCTCGGAGCCTTCTACCCGGACGTATCCTCATC  
GCCATCAACCGACATGGGGTTCTGCTCATCCACCCCAAGACCAAGGACCTGCTCACCACCTATCCCTTCACCAAG  
ATCTCCAGCTGGAGCAGCGGCAGCACCTACTCCACATGGCGCTGGGGAGCCTGGGCCGTGGCAGCCGCTGCTG  
TGCGAGACCTCCCTGGGCTATAAGATGGATGACCTGCTGACCTCATATGTGCAGCAGCTCCTGAGTGCCATGAAC

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**FIGURE 851B**

AAGCAGCGGGGCTCCAAGGCCCCAGCCCTGGCCAGCACCTAGCAGCGGATGCTGGCGTGTCTGCTCAGGCGCCCT  
TCCCGACCTCTAGCCTGGCGGCACCTTCCCAGGCCCTCTCAACCCAGGGCCTGTCCTTGGCGGGCAGCCTTCCAT  
GCTGCCCCCATACAAAGCCCACTCAGCCCCGCAGGCGGCCCCCTCTGTCCTGGGCGCTGCCCAGGGAGGCCAAA  
AGACGGGCCCAGAATGGGGTCGGGAGTCTCGGACCCCCAGGCTATTGGTGGATGACTGACTGACAGGACACCTCC  
CAACCCACCCACCCACCCACCAGAATGTTCAATAAAAACTCCTGGAGCAGGA

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**FIGURE 852**

MKYLLNFIGQGPATYGPFCAERLRRTYANGVRAEPPTWLELQAVKSKKHIPIQVILATGESLTPVDSASTSREM  
CMHIAHKQGLSDHLGFSLQVAVYDKFWSLGSGRDHMDAIARCEQMAQERGESQRQSPWRIYFRKEFFTPWHDSR  
EDPVSTELIYRQVLRGVWSGEYSFEKEEELVELLARHCYVQLGASAESKAVQELLPSCIPHKLYRTKPPDRWASL  
VTAACAKAPYTQKQVTPLAVREQVVDAAARLQWPLLF SRLFEVITLSGPRLPKTQLILAVNWKGLCFDQQEKMLL  
ELSFPEVMGLATNREAQGGQRLLLSTMHEEYEFVSPSSVAIAELVALFLEGLKERSIFAMALQDRKATDDTTLLA  
FKKGDLLVLTKKQGLLASENWTLGQNDRTGKTGLVPMACLYTIPTVTKPSAQLLSLLAMSPEKRKLAAQEGQFTE  
PRPEEPPKEKLHTLEEF SYEFFRAPEKDMVSMVLEPLARARGHLWAYSCPELRQPLLKRVHANVDLWDIACQIFV  
AILRYMGDYP SRQAWPTLELTDQIFTLALQHPALQDEVYCQILKQLTHNSNRHSEERGWQLLWLCTGLFPPSKGL  
LPHAQKFIDTRRGKLLAPDCSRRIQKVLRTGPRKQPPHQVEVEAAEQNVSRICKIYFPNDTSEMLEVVANTRVR  
DVCD SIATRLQLASWEGCSLFIKISDKVGRAGAGQTVGGRAVSEALGAACGGLSLPGAPMLDQAARPGLLGQR

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**FIGURE 853**

AAGTGCATGACTCAGGACTGGGTGGGAGGGGGCTGTCCCTGAGGCCCTGGTCTCCCCCAGCCAAGTCCTGGCAGG  
GGGATGCTGTTCTTCAGGATCCCATGACCTGGGGCTCTTGGGGAGCCCCAGCCCGGAGAGTGACCTGTGGCTTTG  
CTGGGGAAAGGGGCTTGAGGGGTACAGGGCAGTGTCCAGGATTGCAGTCTCAAATCCGAGGCCCCACAGGGGAGCT  
GCCTCTGTGATCGCCATTAAGGCTGTGGCCTGGGGTCTCAGGGCAGCCCAGGAACCAAAAAATAGCCTGTAACCTG  
TCACTTTGTAAGTCCTGCCCTCCAGACACACTTCCCTTTCTTCTCCCCAAGCCTCTCTTCCCAGTTAGCTCCCCCT  
GACTTGGAGTCACCTCTAAGCCTTGCCCCAGGCCCTCTGCAGTGAGATGGAGGGACTCATCCCCCGGAGAGTGG  
CATCTGCAGGCCCCACTGGCTGCCTGTGGTCACCCCTAGGGTTCTAGCGGGGCTGCCTCCCATTTTCTCAGAGC  
ATCCCTGCCAGCTGGCTGGTTCTCACTCTCCTGTTTTCTAGGAAAAGAAAGTGGGGAGAGACAGGAACAGGGTCC  
GGAGCAGCCCCAGCAGCAGCATTGAGGTGGAGCAATATGTCGGACGCCTTGGCCAACGCCGTGTGCCAGCGCTGC  
CAGGCCCCGCTTCTCCCCCGCCGAGCGCATTGTCAACAGCAATGGGGAGCTGTACCATGAGCACTGCTTCGTGTGT  
GCCCAGTGCTTCCGGCCCTTCCCCGAGGGGCTCTTCTATGAGTTTGAAGGCCGGAAGTACTGCGAACACGACTTC  
CAAATGCTGTTTGCTCCGTGCTGTGGATCCTGCGGTGAGTTCATCATTGGCCGCGTCATCAAGGCCATGAACAAC  
AACTGGCACCCGGGCTGCTTCCGCTGCGAGCTGTGTGATGTGGAGCTGGCTGACCTGGGCTTTGTGAAGAATGCC  
GGCAGGCATCTCTGCCGGCCTTGCCACAACCGTGAGAAGGCCAAGGGCCTGGGCAAGTACATCTGCCAGCGGTGC  
CACCTGGTCATCGACGAGCAGCCCCCTCATGTTTCAGGAGCGACGCCTACCACCCTGACCACTTCAACTGCACCCAC  
TGTGGGAAGGAGCTGACAGCCGAGGCCCGGAGCTGAAGGGTGAGCTCTACTGCCTGCCCTGCCATGACAAGATG  
GGCGTCCCCATCTGCGGGGCCCTGCCGCCGGCCCATCGAGGGCCGAGTGGTCAACGCGCTGGGCAAGCAGTGGCAC  
GTGGAGCACTTTGTCTGTGCCAAGTGTGAGAAGCCATTCTGGGGCACCAGGCACTATGAGAAGAAGGGCCTGGCC  
TACTGCGAGACTCACTACAACCAGCTCTTCGGGGACGTCTGCTACAAGTGCAGCCATGTGATTGAAGGCGATGTG  
GTGTGGGCCCTCAACAAGGCCTGGTGTGTGAGCTGCTTCTCCTGCTCCAÇCTGCAACAGCAAGCTCACCCCTGAAG  
AACAAGTTTGTGGAGTTCGACATGAAGCCCGTGTGTAAGAGGTGCTACGAGAAGTTCCCGCTGGAGCTGAAGAAG  
CGGCTGAAGAAGCTGTGCGAGCTGACCTCCCGCAAGCCAGCCCAAGGCCACAGACCTCAACTCTGCCTGAAGGC  
CCTCTTGCGCAGTGCTCTCGGCCCTCCGCCTTCTCCCTCCTGCTGTCCATGCTTGGCCCCCTCGTCCCCATC  
CACCTGTGCCCTCCGCATCTTACCCTCCCTTTCTCTTTCTCATTGCCTTCTCCCTTCTGTTCCCTCATCTCTG  
CCTTCCCCATGTCTCTCCTCTCCTTGCCCGTGGCTTCTGTCTGTGAGGAGGCAGGAGCTGGGGAGTGGGAGCCTA  
TGACCCACAGTCTGACAGCCATGTCCACCTGTGCCACAGCTTCCGCCCACAGACCTCCAGGGACAGGAGCAAT  
TGCACCACAGCTCCCCGCTGGCCTGGCCCTCCCCAGGCGGCTCAGTGGCTCATGCTGTCTGTGAGAGCCCCCTG  
CCCCAGAGCGGCCCCACTAAGCGCATGTGGCTCCTGGGCTACCCACAGCCAGGGCAGCCTGCTGGAGCCACAGGG  
CCAGGGCCATGCAGATGGAGGCCTCTGGGAGCCACCTCCAATCCCTCACCCTCACTCAACCAGTGGCACAGTGT  
CCTTGTGCCCACACTGAGCCAGCAAGTCTGTGTCCACACCCACAAGCTACCTGGAGGGACAGGACCCACCTCC  
ATCCTTCGGAAGGCCTTCTGGAATCCACCTTGGCCTCCGCCCTCGGTTCCGCCCCGCCCTCTCCCCCGACC  
TTGGGGCTTGTGTGAGCCCTTGGGTGGGGCCAGGAGGAGGTGATGGCGTCAGAGGAGGTGTGGTCAGAGGTGAC  
TTGTTCCACCTCCAGGGAGGACGCTTCGTCTTCGGCCAGCGCAGACCTGGTGTGTTGTTTGTGGGCTCACGCTT  
GCACAATGAAGGCTTGTTACAC

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**FIGURE 854**

CCGACACCCACGGGCGGAGATCACCTGCTGCCCCGCAGACCCCTGTCCCTTCCTCCCGGACCAGCAGCTAGAGGA  
TGTCCAAACGGAGTTGGTGGGCTGGATCCAGAAAGCCCCAAGAGAGATGCTGAAACTCTCAGGCTCTGACTCCA  
GCCAAAGCATGAATGGCCTTGAAGTGGCTCCCCCAGGTCTGATCACC AACTTCTCCCTGGCCACGGCAGAGCAAT  
GTGGCCAGGAGACGCCACTGGAGAACATGCTGTTCGCCTCCTTCTACCTTCTGGATTTTATCCTGGCTTTAGTTG  
GCAATACCCTGGCTCTGTGGCTTTTCATCCGAGACCACAAGTCCGGGACCCCGGCCAACGTGTTCCCTGATGCATC  
TGGCCGTGGCCGACTTGTCTGTGCGTGTGGTCCCTGCCCCACCCGCCTGGTCTACCACTTCTCTGGGAACCACTGGC  
CATTTGGGGAAATCGCATGCCGTCTCACCGGCTTCCTCTTCTACCTCAACATGTACGCCAGCATCTACTTCTCTCA  
CCTGCATCAGCGCCGACCGTTTCCTGGCCATTGTGCAACCCGGTCAAGTCCCTCAAGCTCCGCAGGCCCCCTCTACG  
CACACCTGGCCTGTGCCTTCCTGTGGGTGGTGGTGGCTGTGGCCATGGCCCCGCTGCTGGTGAGCCACAGACCG  
TGCAGACCAACCACACGGTGGTCTGCCTGCAGCTGTACCGGGAGAAGGCCTCCCACCATGCCCTGGTGTCCCTGG  
CAGTGGCCTTCACCTTCCC GTTCATCACACGGTCACTGTACCTGCTGATCATCCGCAGCCTGCGGCAGGGCC  
TGCGTGTGGAGAAGCGCCTCAAGACCAAGGCAGTGCGCATGATCGCCATAGTGTGGCCATCTTCTGGTCTGTCT  
TCGTGCCCTACCACGTCAACCGCTCCGTCTACGTGCTGCACTACCGCAGCCATGGGGCCTCCTGCGCCACCCAGC  
GCATCCTGGCCCTGGCAAACCGCATCACCTCCTGCCTCACCGCCTCAACGGGGCACTCGACCCCATCATGTATT  
TCTTCGTGGCTGAGAAGTTCGCCACGCCCTGTGCAACTTGCTCTGTGGCAAAGGCTCAAGGGCCCCGCCCCCA  
GCTTCGAAGGGAAAACCAACGAGAGCTCGCTGAGTGCCAAGTCAGAGCTGTAGCGGGGGGCGCCGTCCAGGCCG  
AGCGCAGACTGTTTAGGACTCAGCAGACCCAGCAAGAGGCATCTGCCCTTTCCCCAGCCACCTCCCCAGCAAGCA  
ACCTGAAATCTCAGCAGATGCCCACCATTTCTCTAGATCGCCTAGTCTCAACCCATAAAAAGGAAGAAGTACAA  
AGGGGATCCATCGGCCACCCCTCTGCAGGGGCTTGTGATGGCTACAATGGCTCCTAGACACTCAACGACTTCATC  
TGTGGCAGGGAGAGAGAGGAGGCCGGAAGAACAACCCCTGAACAATGGAGGCCTTTCTTTCCCGCTAGGCTCCCAGC  
CTCCTTCCC GCTACAGAATCGCTCATCGGCGAGGCTCAGCAGAAAGACCCTGAAGGCAGGCTGCAAATGACCCAG  
AAGAGGGACCTGGGAGTCTGGTGGGGACGGGGAGGGAGTCTCAATACTCCTTTGCAGCGCAAGGTACTCTGAGT  
CCCCTCTGTAGTGCCTCTGCCAGACACACACTGCCTGAGTTGAAGAGACACAGGCCACACATTTAGGCTGGTTG  
CCAGCGGACGTCAGCACTCACGGCCTGCGGGGACTCAGCACAGCTCTGGATTCTGGATCTCTCCTGCTGTAACCC  
CACGCACAAGCCTGCAACCCCCAGAGCTCTTTGACAGGCTCCCAGGCCTCCCAGTCCTGGACAAGCATGTGCAGT  
CACGGGAGCTCAGCTCAGGCCAGGGCTGGGCTGTGCACCTGCCTCCCACTGACCCAGACCCACTTCTCCAGAGA  
GGCCTCTCTCCGCCTGAGCTATTTCCCTTGCTAGTGTGCAGATATTTCCCTAACATGTCCTTTTTTGTATTTGTT  
TGTACGGACCATAAATATAACTGTAGCTTTAAGACTAAAAAAAAA

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**FIGURE 855**

MSKRSWWAGSRKPPREMLKLSGSDSSQSMNGLEVAPPGLITNFSLATAEQCGQETPLENMLFASFYLLDFILALV  
GNTLALWLFIRDHKSGTPANVFLMHLAVADLSCVLVLPTRLVYHFSGNHWPFGIEACRLTGFLFYLNMYASIYFL  
TCISADRFLAIVHPVKSLKLRPLYAHLACAFLWVVVAVAMAPLLVSPQTVQTNHTVVCLQLYREKASHHALVSL  
AVAFTFPFITTTVCYLLIIRSLRQGLRVEKRLKTKAVRMIAIVLAIFLVCFVPYHVNRSVYVLHYRSHGASCATQ  
RILALANRITSCLTSLNGALDPIMYFFVAEKFRHALCNLLCGKRLKGPPPSFEGKTNESSLSAKSEL

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**FIGURE 856A**

GGGGAAGATGGCGGCTGCTCCTTTGGAGGAGCGGGATTGAGAGGATCGGGGTGGGGAGACCAAACAAGAGAGACA  
TTTCTGGCTCTGAAGGCGAACGCTTCGCTGGCCATTTAGGAGCTCTGCTCAAAGCCAGACGTATCCTAGAAGGAA  
AACATCACCATGGCTACAGAAATTGGTTCTCCTCCTCGTTTTTCCATATGCCAAGGTTCAGCACCAGGCACCT  
CGACAGCTGTTTTATAAGCGACCTGATTTTGCACAACAGCAAGCAATGCAACAGCTTACTTTTGATGGAAAACGA  
ATGAGAAAAGCTGTGAACCGAAAAACCATAGACTACAATCCATCTGTAATTAAGTATTTGGAGAACAGAATATGG  
CAAAGAGACCAGAGAGATATGCGGGCAATTCAGCCTGATGCAGGTTATTACAATGATCTGGTCCCACCTATAGGA  
ATGTTGAATAATCCTATGAATGCAGTAACAACAAAATTTGTTTCGGACATCAACAAATAAAGTAAAGTGTCCTGTA  
TTTGTGTAGGTGGACTCCAGAAGGAAGACGCTTGGTCACTGGAGCTTCTAGTGGGGAGTTTACCCTGTGGAAT  
GGACTCACTTTCAATTTTGAAACAATATTACAGGCTCACGACAGCCAGTGAGGGCCATGACGTGGTCACATAAT  
GACATGTGGATGTTGACAGCAGACCACGGAGGATATGTGAAATATTGGCAGTCGAACATGAACAACGTCAAGATG  
TTCCAGGCACATAAGGAGGCGATTAGAGAGGCCAGTTTCTCACCCACGGATAATAAATTTGCTACATGCTCTGAT  
GACGGCACTGTTAGAATCTGGGACTTTCTTCGTTGCCATGAGGAAAGAATTCTCCGAGGGCATGGTGTCTGATGTG  
AAATGTGTAGACTGGCATCCAACCAAGGGTTAGTTGTTTTCAGGAAGTAAAGATAGTCAACAGCCAATCAAGTTC  
TGGGATCCCAAGACTGGGCAGAGTCTTGCAACACTTCATGCCCATAAAAACACAGTAATGGAAGTGAAATTAAAC  
CTCAATGGCAATTGGCTACTCACAGCATCACGTGATCATCTCTGTAAACTTTTTGATATCAGAAACCTAAAAGAA  
GAGCTTCAAGTCTTCCGAGGTCATAAGAAAGAAGCCACAGCTGTGGCCTGGCATCCTGTTTCATGAAGGACTTTTT  
GCCAGTGGAGGGTCTGATGGTTCTTTGTTATTCTGGCATGTTGGGGTAGAGAAGGAAGTGGGTGGGATGGAGATG  
GCTCACGAAGGGATGATCTGGAGTCTGGCTTGGCATCCTCTTGGGCATATTCTCTGCTCAGGCTCAAATGACCAT  
ACTAGCAAATCTGGACTCGAAAACCGACCAGGTGATAAAATGCGAGATCGATATAATCTAAACCTTTTACCTGGA  
ATGTCTGAAGATGGAGTAGAATATGATGACCTCGAACCTAATAGCCTGGCAGTAATTCCAGGAATGGGAATACCA  
GAACAATAAAATTAGCTATGGAACAAGAACAGATGGGGAAAGATGAATCAAATGAAATTGAAATGACAATTCCA  
GGTTTAGATTGGGGAATGGAGGAAGTGATGCAAAAGGATCAGAAAAAGTACCTCAGAAGAAAGTTCCTTATGCA  
AAACCCATTCTGCTCAGTTCCAGCAGGCTTGGATGCAAAATAAAGTTCCAATTCTGCTCCAAATGAGGTGCTG  
AATGACAGAAAAGAAGACATTAAATTGGAAGAGAAGAAAAAACACAAGCAGAAATTGAGCAAGAAATGGCTACA  
TTACAATATACTAACCACAACTTCTGGAGCAACTTAAATTGAAAGACTTGACACAGAAACAAGTTGAGCAAATT  
CAGCCTCCTCCCTCATCTGGCACCCCTCTCCTCGGACCCACGCTTTTCCAGGACAAGGTCCAATGTCTCAGATT  
CCTCAAGGTTTTTCAACAGCCCCATCCATCTCAGCAGATGCCAATGAACATGGCTCAAATGGGGCCTCCAGGTCCA  
CAGGGACAGTTTAGGCCTCCTGGACCCACAGGACAAATGGGACCACAAGGTCCTCCACTGCATCAGGGAGGTGGG  
GGGCCACAAGGATTCATGGGACCACAGGGGCCCCAGGGCCCGCCACAGGGGTTGCCACGGCCTCAGGACATGCAT  
GGGCCCCAAGGAATGCAGAGGCATCCTGGACCTCATGGCCCTTTGGGACCTCAAGGGCCACCTGGACCACAAGGT  
AGTTCTGGTCTCAAGGTCAATATGGGTCTCAGGGTCCACCTGGCCACAGGGTCACATAGGCCCCCAAGGCCCG  
CCTGGCCCTCAGGGTCACTTGGGCCACAGGGGCTCCGGGTACTCAAGGTATGCAAGGACCACCTGGTCCCAGA  
GGAATGCAAGGGCCTCCTCATCTCATGGGATCCAAGGCGGACCAGGGTCTCAAGGGATCCAAGGTCTGTGTCT  
CAGGGACCTCTGATGGGATTGAATCCAAGAGGAATGCAGGGGCTCCAGGGCCCCGGGAGAACCAGGGTCTGTCT  
CCCCAAGGGATGATTATGGGCCACCCGCTCAAGAGATGAGAGGACCTCACCTCCAGGTGGACTACTGGGACAC  
GGCCCTCAGGAAATGAGAGGTCTCAGGAGATCCGAGGCATGCAGGGGCTCCACCCCAAGGATCAATGCTGGGA  
CCTCCCCAGGAATTGCGAGGGCTCCAGGCTCACAAAGTCAGCAGGGGCGCCCGAGGGCTCTTTAGGACCTCCA  
CCCCAGGGTGGCATGCAAGGACCCCCCGACCTCAGGGACAGCAGAACCCAGCAAGAGGGCCACATCCATCTCAA  
GGGCCAATACCATTCCAGCAACAGAAAAACGCTCTGTAGGTGATGGGCCCCGGGCCCCCTTCAACCAGGAAGGA  
CAGAGCACAGGCCCCCACCCTGATACCAGGCCTAGGGCAGCAGGGAGCACAAGGTTCGATTCCCCCTCTGAAC  
CCCGGACAAGGACCTGGCCCCAACAAAGTTTTCAGAAGAGGAGCCCGCGGAGGCATGAGGGCCGTGCTCCCCCA  
GAGGAAGGGATGGTTTTCTGGTCTCTGAAGACTTTGGTCCAGAGGAGAATTTTGATGCTTCTGAGGAAGCGGCC  
GAGGACGAGATCTCAGAGGTGAGGTGCGGGTACCCACAGGAGGAAGGAAGGGTTTACTTCCCACTCTTGACG  
AGTTCCCTCGCTTTGAAGGAGGGCGGAAGCCAGATTCTTGGGATGGAACAGAGAGCCTGGGCCAGGTCTGAC  
ATTTTCGTGATACTCCCCGCCCTGATCATCCCCCTCACGACGGTCATTCCCCAGCCAGCAGAGAACGCTCCTCTT  
CTCTCCAAGGCATGGACATGGCATCCCTACCTCCCCGAAAGCGCCCCCTGGCATGATGGGCCAGGCACTTCTGAGC  
ACAGAGAGATGGAGGGCCCCAGGAGGCCCTTCTGAAGACCGAGGAGGCAAAGGCCGAGGGGGCCAGGACCTGCTC  
AGAGAGTGCCCAAATCTGGGCGTTCCAGCTCCTTAGACGGAGAGCACCACGATGGATACCACAGAGATGAACCTT



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**FIGURE 856B**

TTGGGGGCCCTCCAGGCAGTGGCACCCCTTCTCGAGGGGGCCGGAGTGGCAGTAACTGGGGTAGAGGGAGTAACA  
TGAACCTCTGGCCCCGCCGAGGCGAGGAGCTTCACGGGGTGGTGGAAGGGGTCGGTAGAAGCTGGAAGCTGAGTACCC  
TGAGGCCCTCTCTGGACAGTATGTAAGAACTTCTTGTGGACTCACCAAGAGAAACAAAAGGAAGCCTGCACCATTG  
TAGCCCTGAACTCTTTTCTGGGCACCTGAATCCCAGGAACCTCAATGAGGTCTTCAAGATGAAGAGACTGCTGC  
CAGCTACCAGCCTGGCTGGCCCTGTCCTGTCCACCCTCATTGCCCCAACTCCCATGTTGTTTTGTGAAGATAAAA  
GCTGGGATCTTTTTCTTTTTTTAAGTCTCACAAAGACATGGGGCATCTCCACAAATTTAAGTTCCTGTCCATTTG  
GAAATTTGTTTCTATGTGTACAGTTTGTGAGAGAAAAACAAAGTTTTTGTATGAATACAGAATGTGATTTACGCA  
AGAATTGACAGAAAACCTAGTTGTGAAGTGCTTGCCTTAAGGAAACCTTTGGTTTCCATCGCATCCCATCTGCCAA  
GGAATGCACGGTTGTTGCTGATGTTTCATGAGCATATTAACCACTAGGTTATCTAAATTAATCTCAGCTGTGAAC  
TTGTGTTTTTCAACACATTCTGTTCACACCATTTTTGTGACAGAAAAATACTTGAAAAATTATTCTAATGTAGTTTG  
TAGTAGGTTCAAAATTTTATTTCAGACATGCTCTGACAGATGGAAAATTGTACTCTGAAGAGAAAAATGCAATCTTC  
TGGATGTCCAACGAGGGAGCTTCCCCTTGGAAAGCATCTCCTAAGAATCACAGTTTAGGTTTGAATCGCCTTGTTA  
TGATGAGGAGAGGAACCTTGATGTTAGTCAGAAATAAAGTCACATGCCCTTTAGATAACTTGAAATCACACATGGA  
GTTGATAAGGAATGGACCAAAATAGGTCCTCAACAATTTTGCAACACTTAATTAAGTTTTCTCTCTTCTCTCTT  
CCATACTATGTGGAAATACCAGTGTTACGGCAGGGCGTACTTCTAACTCACAGTAAGCCAGATAGATCTTGTCCA  
TGGCAAATTCCTTGTTTAAAAATAACATACCATTTAGCCCAGTTTGGATTGGAAGCCAAAAATTCAGTTTGTAT  
ATACCCCATGATACTTCTATACTGACCTTTATTTTTGGTTTTACATGGAAGCTTTTATTAAAAGGACTGTCCTAT  
GGCCACCTTAACATTTTATTACATTGGCAGCTTCAGTTTTGGCATCAGTCAAATTTATTTGGCAAATTTAGTGGT  
GCTGGAAGTTTCTTTTTTCTTTTCTTTTTTGTGACAGAGTCTTGCTCTGTCAACCAGCCAGGAGTGCAGTGGTGC  
AATCACGGCTCACTTCAGCTTTGACCCCTGCCTCAGCCTCCCTAGTAGCTAGGACTACAGGCATATGCCACCATGC  
CCAGCTAATTTTTTGTGTGTGTGTTTTTGTAGAGATGGAGTTTCACCACTTTGTCTATGCTGGTTTCAAACCTCC  
TGGGCTCAAGCGGTCCACCTGCTGTGGCCTCCCAAAGTGCTGGGATTGCAGATCTGAGCCACAGTACCTGGCCGC  
TGGTGCTGGAAGTTTCAATGGTTGCTTAGAAAAGGCATACTGATATAGTTTAAACAGGATATGAAAATTTAACTGG  
TTCTCTATGAATGTAAAAAACAGCAAAAGCTAATTGATTTCTGTGGAGTGAGAAAATGTCAGCCATATACACTGC  
TTTTCAGTGTTAGAATCTAGAGACTATTTTTTTTTTAACTTTGAAATTACAGCTTATTTAATCAGCGCTCCACCA  
TAAACATGCTATTAGGAGGCTCAAGATTGCTTTAGGTTATGGGTATTTCTTCACTCACCCCCAACTGGTATAGCT  
TAAAGAGAGAGAACTGTAAATCAAATTTTCATGAAGCTAAAACCGGATCCAGAGACCAAAACCCATATCAAGATTAG  
ACTTTTTTCCCTGAGATTCTAGTGGAATAATTTTCAATTTTTGGGCTTTAACTTTAGAAACATAGTATCTCAG  
TAAGCAGATAACCAGATCACATTTAAAAATTTTCAATTTTACCTTGAAGCTCTACTGGACTTGACAGATCACATTT  
TGAGAGTGAATTCATTTAAACAATAAACCTCTACATTATACTTAT

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**FIGURE 857**

AGAACATCCAGTCACGGATAAAAATGAGCTGGTTCAGAAGGCCAACTGGCCGAGCAGGCTGAGCAATATGATGA  
CATGGCAGCCTGCATGAAGTCTGTAAGCAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTCTCAGT  
TGCTTATAAAAATGTTGTAGGAGCCCGTAAGTCATCTTGGAGGGTCGTCTCAAGTATTGAACAAAAACGGAAGG  
TGCTGAGAAAAACAGCAGATGGCTCGAGAACACAGAGAGAAAAATTGAGACGGAGCTAAGAGATATCTGTAATGA  
TGTATTGTCTCTTTTGGAAAAGTTCTTGATCCCCAATGCTTCACAAGCAGAGAGCAAAGTCTTCTATTTGAAAAAT  
GAAAGGAGATTACTACCGTTACTTGACTGAGGTTACTGCTGGTGATGACAAGATAGGGATTGTGGATCAGTCACA  
ACAAGCATACCAAGAAGCTTTTGAAATCAGCAAAAAAGAAATGCAACCAACACATCCTGTCTAGATTGGGTCTGGC  
CCTTAACCTCTGTGTTCTATTATGAGATTCTGAACTCCCCAGAGAAAGCCTGCTGTCTTGCAAAGACCGCTTTTG  
ATGAAGCCATTGCTGAACCTTGATACATTAAGTGAAGAGTCATACAAAGACAGCATGCTAATAATGCAATTACTGA  
GAGACAACCTTGACATTGTGGACATCGGATACCCAAGGAGACGAAGCTGAAGCAGGAGAAGGAGGGGAAAAATTAAC  
CGGCCTTCCAACCTTTGTCTGCCTCATTCTAAAAATTTACACAGTAGACCATTGTGTCATCCATGCTGTCCACAAA  
TAGTTTTTTGTTTTATGATTTATGACAGGTTTATGTTACTTCTATTTGGATTTCTATATTTCCCATGTGGTTTTTA  
TGTTTAATATTAAGGGAGTAGAGCCAGTCAACATTTAGGGAGGTATCTGTTTTTCATCTTGAGGTGGCCAATATTG  
GGATGTGGAATTTTTATACAAGTTATAAATGTTTGGCATAGTACTTTTGGTACATTGTGGCTTCACAAGGGCCAG  
TGTAAACTGCTTCCATGTCTAAGCAAAGAAAACTGCCTACATATTGGTTTGTCTGGTGGAGAATAAAAGGGAT  
CATTGATTCCAGTCAGAGGTGTAGTAATTGTGGGTACTTTTAAGGTTTGGAGCACTTTACAAGGCTGTGGTAGAA  
ACATACCCCATGGATACCACATGTTAAACCATGTATATCTGTGGAATACTCAGTCTCATTGTGCACACCTTTGAC  
TACAGCTGCAGAAGTTTTCTTTAGATAAAGTTGTGACCCATTTTACTCTGGATAAGGGCAGAAACAGTTCACAT  
TCCATTATTTGTAAAGTTACCTGCTGTTAGCTTTCATTATTTTGTCTACACTCATTTTATTTGTATTTAAATGTT  
TTAGGCAACCTAAGAACAAATGTAAAGTAAAGATGCAGTAAAAATGAATTGCTTGGTATTCAATTGCTTCATGTA  
TATCAAGCACAGCAGTAAACAAAAACCCATGTATTTAACTTTTTTTTAGGTTTTTTGCTTTTGTGATTTTTTTT  
TGATACTTGCCTAACATGCATGTGCTGTAAAAATAGTTAACAAGGAAATAACTTGAGATGATGGCTAGCTTTGTT  
TAATGTCTTATGAAATGTTTCGTGGATAATCCAAGCATAATTGTTAAGAACACGTGTATTAAATTCATGTAAGTGG  
AATAAAAGTTTTATGAATGGACTTTTCACTACTTCTCTACAGCTTTTCGTGTAAATTAGTCTTTTGGTTCTGA  
AATTTCTCTAAAGGAAATTGTACATTTTTGAAATTTATTCCTTATTCCTCTTGGCAGCTAATGGGCTTTTAGTA  
AGTTTAAACAAAAATTTATCATAACAACAAAAATACTACTAATAATACTACTGTTTCCATGTCCCATGATCCC  
GTCTCTTCTCCCCACCCTGAAAAAATGAGTTCCTATTTTTTCTGGGAGAGGGGAGATTAATTGGAaaaaaATG  
TTAATATGTTCCATTTAAAATTTTGGTATATGGCATTTTCTAACTTAAGAAGCCACAATGTTCTTGGCCCATCAT  
GACAATGGGTAGCATTAACTATAAGTTTTGTGCTTCCAAATCACTTTTCGGTTTTTAAGAATTTCTTGATACTCC  
TACAGCCTGCCTTCGATTTTGATCCTTTATTCTGTTTGTGAGGTGCACAAGATTACCTTCCTTTTTTAGCCATCT  
GTCTTGTCAACCAACCATTCCTACTTGGTGGCCATGTACTTGAAAAAGGCCGCATGATCTTTCTGGCTCCACTCA  
ATGTCTAAGGCACCCCTGCTTCCTTTGCTTGCATCCACAGACTATTTCCCTCATCCTATTTACTGCAGCAATTGT  
CTCCTTAGTTGACGAGATTGTGTTTATCTCCCTTTAAAAACCTACCTATCCTGAATGATCTGTCAATTGTCTGCCT  
TTAAATCCTTCCTCTTTCTTCTCTATTCTCTAAATAATGATGGGGCTAAATTATACCCAAAGCTCACTTT  
ACAAAATATTTCTCAGTACTTTGCAGAAAAACACCAAAACAAAAATGCCATTTTAAAAGAGGTGTATTTTTCTTT  
TAGAATGTTAGAATGTAAGCTCCTCAAAAGCAGGGACAATGTTTTCCGTATGTTCTACTGTGCCTAGTATACTGT  
AAATGCTCAATAAATACTGATGATGGGAGGCAGTGAGTCTTGATGATAAGGGTGAGAAACCGAAATCCC

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**FIGURE 858**

GATGACATGGCAGCCTGCATGAAGTCTGTAACTAAGCAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTC  
TCAGTTGCTTATAAAAAATGTTGTAGGAGCCCGTAAGTCATCTTGGAGGGTCGTCTCAAGTATTGAACAAAAACG  
GAAGGTGCTGAGAAAAACAGCAGATGGCTCGAGAACACAGAGAGAAAATTGAGACGGAGCTAAGAGATATCTGT  
AATGATGTATTGTCTCTTTTGGAAAAGTTCTTGATCCCCAATGCTTCACAAGCAGAGAGCAAAAGTCTTCTATTG  
AAAATGAAAGGAGATTACTACCGTTACTTGACTGAGGTTACTGCTGGTGATGACAAGATAGGGATTGTGGATCAG  
TCACAACAAGCATAACCAAGAAGCTTTTGAAATCAGCAAAAAAGAAATGCAACCAACACATCCTGTCAGATTGGGT  
CTGGCCCTTAACTTCTGTGTTCTATTATGAGATTCTGAACTCCCCAGAGAAAGCCTGCTGTCTTGCAAAGACCGC  
TTTTGATGAAGCCATTGCTGAACTTGATACATTAAAGTGAAGAGTCATACAAAGACAGCATGCTAATAATGCAATT  
ACTGAGAGACAATTGACAATGTGGTTTTTATGTTTAATATTAAGGGAGTAGAGCCAGTCAACATTTAGGGAGGT  
ATCTGTTTTTCATCTTGAGGTGGCCAATATTGGGATGTGGAATTTTTATACAAGTTATAAATGTTTGGCATAGTAC  
TTTTG

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**FIGURE 859A**

TTTTCGGCGCCGTGGCGGAATGGCGGCTTCCATCTCTGAGGCGAGCGACGCTATGGATCCCACAGTGGTTTGCTA  
AGAAGGCCATTTTCAACTCTCCACTGGAGGCTGCTATGCGGTTCCCTCACCTGCAGCAGCCCAGCTTTCTACTGG  
CTAGCCTGAAAGCTGACTCTATAAATAAGCCCTTTGCACAGCAGTGCCAAGACTTGGTTAAAGTCATTGAGGACT  
TTCCAGCAAAGGAGCTGCACACCATCTTCCCATGGCTGGTAGAAAGCATTTTGGCAGCCTAGATGGTGTCTCTCG  
TTGGCTGGAACCTCCGCTGCTTACAGGGGCGCGTGAATCCTGTGGAGTACAGCATCGTGATGGAATTTCTCGACC  
CTGGTGGCCCAATGATGAAGTTGGTTTATAAGCTTCAAGCTGAAGACTATAAGTTGACTTTCTGTCTCTCTACT  
TGCTTGGTCTGTGAAGGCGTCCATCCAGGAGTGATCCTCCCTGACAGTCTCTGTACCACAACAAGGTCCAGT  
TCACCCCTACTGGGGGCTTGGTCTGAACTTGGCCCTGAATCCGTTGAGTATTACATATTCTTCTTTGCCTTGA  
GCCTCATCACTCAGAAGCCACTTCTGTGTCCCTCCACGTCCGTACTTCAGACTGTGCCTATTTTCATCCTGGTGG  
ACAGGTACCTGTATGGTTCTTGCCACCGAAGGCAGTGTGCCCCACCCTCTCTCCAGCCCAGGGGGGACCA  
GCCCCCTACACCTCCCAGGACACCAGCCATACCCCTTTGCTTCTATGGCCTCCACCACACTAGCCTCCTAAAGC  
GACACATCTCTCATCAGACGTCTGTGAATGCAGACCCCGCTCCCACGAGATCTGGAGGTGAGAACTCTGTCTCC  
AGGTTTTTGTGAAATGTGGCTTTCATCACTATTCTTGGAGATGTATCAAAAAATGCAGTCCCCTCATGCCAAGG  
AGTCGTTACGCCTACTGAGGAGCATGTGTTGGTGGTGCCTGTCTGTGAAGCACCTGCACGCCTTTGCCAACA  
GCCTGAAGCCAGAGCAGGCCTCACCCCTCCGCCCCACTCCCACGCCACCAGCCCCCTGGAGGAGTTCAAACGGGCTG  
CTGTCCCAGGTTCTGTCCAGCAGAACTCTACCTCTTCTTGACGATTGCTTTGGCCACTGGCCCTGGACGCAT  
CGTTCAGAGCTGTCTGGAGATGTGGCTGAGCTACCTGCAGCCGTGGCGGTACGCGCCTGACAAGCAGGCTCCGG  
GCAGCGACTCCCAGCCCCGCTGTGTGTGCGGAGAAATGGGCACCCCTTTGTCCAGGAGAACCTGTGTATGTACACCA  
AGTTGTTTGTGGGCTTTCTGAACCGCGCGCTCCGCACAGACCTGGTGCAGCCCCAAGCACGCGCTCATGGTGTTC  
GAGTGGCCAAAGTCTTTGCCAGCCCCAACCTGGCTGAGATGATTGAGAAAGGTGAGCAGCTATTCTGGAGCCAG  
AGCTGGTCATCCCCACCGCCAGCACCGACTCTTCACGGCCCCACATTCACTGGGAGCTTCTGTACCCTGGC  
CACCAGCGGTCACTGATGCCTCTTCAAGGTGAAGAGCCACGTCTACAGCCTGGAGGGCCAGGACTGCAAGTACA  
CCCCGATGTTTGGGCCCGAGGCCCGCACCCCTGGTCTGCGCCTCGCTCAGCTCATCACACAGGCCAAACACACAG  
CCAAGTCCATCTCCGACCAGTGTGCGGAGAGCCCGCTGGCCACTCCTTCTCTCATGGCTGGGCTTTAGCTCCA  
TGGACACCAATGGCTCCTACACAGCCAACGACCTGGACGAGATGGGGCAAGACAGTGTCCGGAAGACAGATGAAT  
ACCTGGAGAAGGCCCTGGAGTACCTGCGCCAGATATTCCGGCTCAGCGAAGCGCAGCTCAGGCAGTTCACACTCG  
CCTTGGGCACCACCCAGGATGAGAATGGAAGCAACTCCCCGACTGCATCGTGGGTGAGGACGGACTCATCC  
TTACGCCCCCTGGGGCGGTACCAGATCATCAATGGGCTGCGAAGGTTTGAATTTAGTACCAGGGGGACCCGGAGC  
TGCAGCCCATCCGGAGCTATGAGATCGCCAGCTTGGTCCGCACACTCTTTAGGCTGTCTGTCTGCCATCAACCACA  
GATTTGCAGGACAGATGGCGGCTCTGTGTTCCCGGGATGACTTCTCTCGGCAGCTTCTGTCTGCTACCACCTCACAG  
AACCTGGGCTGGCCAGCAGGCACCTGCTGAGCCCTGTGGGGCGGAGGCAGGTGGCCGCCACACCCGCGGCCCA  
GGCTCAGCCTGCGCTTCTTGGGCAGTTACCGGACGCTGGTCTCGCTGCTGTCTGGCCTTCTTCTGTGGCTCTCTGT  
TCTGCGTGGGGCCCCCTCCATGCACGCTGCTGCTCACCCCTGGGCTATGTCTCTACGCCTCTGCCATGACACTGC  
TGACCGAGCGGGGAAGCTGCACAGCCCTGAAGGTGTGAGCTGCCTTACAGAGCAGGCTGGAGGGATTGCCACA  
CAGCCCCACCTTGGGCTGAGAGGACCTGGGAAGCCCTCCAGGAGGGAACACGGTCATCTCGGGCTTCTGGAG  
CGGGGTTCTTGCAGCCGAGAGGCATCTGGAGGAAACGCAACCAAGAAAGGAAGGCAGGTGGGCCCCAGCAAAGG  
AGTAGCTGCCAGGGCTCAACAGCTACGCTCTGTGACAGCGCAGAGCTCAGCGGCGGCCTTTCCCTCCCTCCGCCA  
AGGACTCACGGCCAAGCCAGCTCTCGGGGCCCTTTTTTCCACTGCCCATTGGCTACTCTGTGCACCAAGCTTGG  
GAGCCAGCCTGCCAACAGCCACCTGGGCCTGGCCTCCCCACTGGCTGGCCTTGGAGTTGGCAGAGTGGGTTGTGG  
CGCTTCTCTCTCTGTGTGGGACCAGGACAGTGGCTTAAGTCTCCACTCCAGGAAAGAATCAAAGTTTCTAGAGT  
TGTGAGAAAACCAGAGAGTGGCTGTCTGATTCTTCACTGTGAGGGGCGTTCTTCATGTTCTCCAGCTGTTCCA  
AGACTGGGCGGTAGAAATTCATGTTTTCAGGAGCCTAAGACCCTCCAGAGCCCAGGGGCTTACCAGCAGACCCCA  
AGCCATTGAGCACATACCCAAAGCAGTGGCCAACATCGCGGACCCCTGTGCCCTTGTACAGATGGGTGCTGGTC  
CTCAGGCGTTGGGGACACTGCTGGGTGATGGGGTCGATTCTGCCAGTTTCTGCTCTGCAGCCAAAGATGGTCA  
GAAGCATTGTCACTTCACTAACATCAAGTGCTCAAAGACATGGCAACCGTTCAGTGGTACTTAAGTATTCAAAT  
ATACAACTACAGATTCTCTGACAGAAACCAGCAGGGGTCTTACCTTCACTTACCCACAGGCGACATGCGAGG  
GAGAACAGCATCTCAGTGGTGATTTCCAAACCAAGCCTTTGTTTTCGGTGTGGGGTTTTGGGGGTTTTGCTTTAAT  
GTTTTTGAAATTTGTAATGTGGGCTTTGTATTTTGATGTAACTGAGCATAATGGCATTTTAGGGCCTGTGACC

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**FIGURE 859B**

AAAATGAAGCTTGTAACGACCCATGGATCTGAATAAACATGTCCTTGCTTCTGAAAAAAAAAAAAAAAAAAAAA  
AAAAAA

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**FIGURE 860**

MAFPHLQQPSFLLASLKADSINKPFAQQCQDLVKVIEDFPKELHTIFPWLVESIFGSLDGVLVGWNLRCLQGRV  
NPVEYSIVMEFLDPGGPMMKLVYKLQAEDYKDFPVSYPGPVKASIQECILPDSPLYHNKVQFTPTGGLGLNLA  
LNPFEYYIFFFALSLITQKPLPVSLHVRTSDCAYFILVDRYLSWFLPTEGSVPPPLSSSPGGTSPSPPPRTPAIP  
FASYGLHHTSLLKRHISHQTSVNADPASHEIWRSETLLQVFVEMWLHHYSLEMYQKMQSPHAKESFTPTTEHVLV  
VRLLLKHLHAFANSLKPEQASPSAHSHATSPLEEFKRAAVPRFVQQKLYLFLQHCFGHWPLDASFRVLEMWLSY  
LQPWRYAPDKQAPGSDSQPRCVSEKWAPFVQENLLMYTKLFVGFLNRALRTDLVSPKHALMVFRVAKVFAQPNLA  
EMIQKGEQLFLEPELVIPHRQHRLFTAPTFTGSFLSPWPPAVTDASFVKVSHVYSLEGQDCKYTPMFGPEARTLV  
LRLAQLITQAKHTAKSISDQCAESPAGHSFLSWLGFSSMDTNGSYTANDLDEMGOQSVRKTDEYLEKALEYLRQI  
FRLSEAQLRQFTLALGTTQDENGKKQLPDCIVGEDGLILTPLGRYQIINGLRRFEIEYQGDPELQPIRSYEIASL  
VRTLFRLLSSAINHRFAGQMAALCSRDDFLGSFCRYHLTEPGLASRHLLSPVGRRQVAGHTRGPRLSLRFLGSYRT  
LVSLLLAFFVASLFCVGPLPCTLLLTGVLVYASAMTLLTERGKLHQP

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**FIGURE 861**

GGCGCCGAGTAGCCGGGCGGGCCGGAGCGCGGGCGGCGGAGGCAGCTGCGCCCGCGCCTCCTGCCCTCCCA  
GGCCCCGCGCCCCGCGCCCGGGCCCCGGCGATGGTGACACATGCGGCGGCGGCGCGCCGGCGGCAGGACCATGGT  
TGAGCGCGCCAGCAAGTTTCGTGCTGGTGGTGGCGGGCTCGGTGTGCTTCATGCTCATCTTGTAACAGTACGCGGG  
CCCAGGACTGAGCCTGGGCGCGCCCGGGCGCGCGCGCCGACGACCTGGACCTGTTCCCCACGCCCGACCC  
CCACTACGAGAAGAAGTACTACTTCCCAGTCCGCGAGCTGGAGCGCTCGCTGCGCTTCGACATGAAGGGCGACGA  
CGTGATCGTCTTCCTGCACATCCAGAAGACGGGCGGCACCACCTTCGGCCGCCACCTCGTGAGAACGTACGCCT  
CGAGGTGCCGTGCGACTGCCGGCCCCGGCCAGAAGAAGTGCACCTGCTACCGGCCCCAACCGCCGCGAGACTTGGCT  
CTTCTCCCGCTTCTCCACCGGCTGGAGCTGCGGGCTGCACGCCGACTGGACCGAGCTACCAACTGCGTGCCCCG  
CGTGCTGGACCGCCGCGACTCCGCCGCGCTGCGCACGCCAGGAAGTTCTACTACATCACCTGCTACGAGACCC  
CGTGTCGCCGCTACCTGAGCGAGTGGCGGCATGTGCAGAGGGGTGCCACGTGGAAGACGTGCTTGATATGTGTGA  
TGGGCGCACGCCACGCCTGAGGAGCTGCCGCCCTGCTACGAGGGCACGGACTGGTCGGGCTGCACGCTACAGGA  
GTTTCATGGACTGCCCGTACAACCTGGCCAACAACCGCCAGGTGCGCATGCTGGCCGACCTGAGCCTGGTGGGCTG  
CTACAACCTGTCTTCATCCCCGAGGGCAAGCGGGCCAGCTGCTGCTCGAGAGCGCCAAGAAGAACCCTGCGGGG  
CATGGCCTTCTTCGGCCTGACCGAGTTCCAGCGCAAGACGCAGTACCTGTTTCGAGCGGACGTTCAACCTCAAGTT  
CATCCGGCCCTTCATGCAGTACAATAGCACGCGGGCGGGCGGCGTGGAGGTGGATGAAGACACCATCCGGCGCAT  
CGAGGAGCTCAACGACCTGGACATGCAGCTGTACGACTACGCCAAGGACCTCTTCCAGCAGCGCTACCAGTACAA  
GCGGCAGCTGGAGCGCAGGGAGCAGCGCCTGAGGAGCCGCGAGGAGCGTCTGCTGCACCGGGCCAAGGAGGCACT  
GCCGCGGGAGGATGCCGACGAGCCGGGCGCGTGGCCACCGAGGACTACATGAGCCACATCATTGAGAAGTGGTA  
GTGGCGGTGGTGGCCACGGGGAGGCCTCTTGGGGGTGTGGGGGATAAAACAGGACAGACGACAGGTCCACCCAA  
GACTGTCAAGGGATGAGCATCCCCAAACCTGCTCCACAGAGGTAGCTGCGTCTTGAAAAAACAGAGCAGGGATG  
TAGTGGGGCTGGGCAGGGATGGGGGCTTGAGAAATCAACAGGTGCAGCCCAGTGGGTGAGAGAAAGCGTGCTCG  
AAGGATGCCATGGTCAGGGCAGGGCCTCCAGAGCAGGTGTTGTGCCTGGAGCTGCTCTCCTGGCCTCCTTGATT  
TATCGCAAAACTGAAGTTTTGCGCAAGAGACGAGGACAGCGGAAAGTGGACCTGCCAGGCCGGGAGTGTGTCCC  
TCACCAACTATGCACACAGCACTCGCTCTTAGCTCCTCTGTCCGGGCTACTAGGAGTGAGACCAGCTTCTGGCAA  
CTGCCCCAGCTCCAGGCCATCCCATAGCCCCCTCTTCTGGCTGCCCCCAATGCCCCGAGGCCTGGGGAGCCCC  
CAGCTCACCCATCTGTAGCTCCCTCAAAGTCAGGGCCCCACCCATCTGAGGCAGAGAAGACTCGAGTCCAGCCCC  
CAGGAAGCCTGCTCCCTCTCTGCCCCATGGTCCTGCTTCATGCTTTGGGTGAGGAGGCCAAAGCTGATGTTTCAG  
GCCCCACCCACTCCCTACAGTCCTCAGACC

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**FIGURE 862**

GACTGCCCGTACAACCTGGCCAACAACCGCCAGGTGCGCATGCTGGCCGACCTGAGCCTGGTGGGCTGCTACAAC  
CTGTCTTTCATCCCCGAGGGCAAGCGGGCCCAGCTGCTGCTCGAGAGCGCCAAGAAGAACCTGCGGGGCATGGCC  
TTCTTCGGCCTGACCGAGTTCCAGCGCAAGACGCGAGTACCTGTTTCGAGCGGACGTTCAACCTCAAGTTTCATCCGG  
CCCTTCATGCAGTACAATAGCACGCGGGCGGGCGGCGTGGAGGTGGATGAAGACACCATCCGGCGCATCGAGGAG  
CTCAACGACCTGGACATGCAGCTGTACGACTACGCCAAGGACCTCTTCCAGCAGCGCTACCAGTACAAGCGGCAG  
CTGGAGCGCAGGGAGCAGCGCCTGAGGAGCCGCGAGGAGCGTCTGCTGCACCGGGCCAAGGAGGCACTGCCGCGG  
GAGGATGCCGACGAGCCGGGCGCGTGCCACCGAGGACTACATGAGCCACATCATTGAGAAGTGGTAGTGGCGG  
TGGTGGCCACGGGGAGGCCTCTTGGGGGGTGTGGGGGATAAAACAGGACAGACAGGTCCACCCAAGACTGTC  
AAGGGATGAGCATCCCAAACCTGCTCCACAGAGGTAGCTGCGTCTGAAAAAAACAGAGCAGGGATGTAGTGGG  
GCTGGGCAGGGATGGGGGCTTGAGAAATCAACAGGTGCAGCCCAGTGGGTGAGAGGAAAGCGTGCTCGAAGGATG  
CCATGGTCAGGGCAGGGCCTCCAGAGCAGGTGTTGTGCCTGGAGCTGCTCTCCTGGCCTCCTTGATTATCGCA  
AAACTGAAGGTTTTCGCAAGAGACGAGGACAGCGGAAAGTGGACCTGCCAGGCCGGGAGTGTGTCCCTCACCAA  
CTATGCACACAGCACTCGCTCTTAGCTCCTCTGTCCGGGCTACTAGGAGTGAGACCAGCTTCTGGCAACTGCCCC  
AGCTCCAGGCCATCCCATAGCCCCCTCCTCTTCTGGCTGCCCCAATGCCCCGAGGCCTGGGGAGCCCCCAGTCA  
CCCATCTGTAGCTCCCTCAAAGTCAGGGCCCCACCCCATCTGAGGCAGAGAAGACTCGAGTCCAGCCCCCAGGAAG  
CTGTCTCCCTCTCTGGCCCATGGTCTCTCATGCTTTGGGTGAGGAGCCAAAGCTGATGTTTCAGGCCCCAC  
CCTCTCCCTACAGTCTCTAGACCAAGGAGGGGTTTGGGTAGTAGGCCCGAGCTGCATTGCCGGCCTTCTCGGGC  
CAACTGGCAGCCCAGGAGTGGGGAGGCTTTGGCCAGGGATGCTGCCACTTGTGCGTGAGTCCGCGGCTGGCCCTT  
GGAGGTGACCATCCAGGCAGGCCTGGCTCAGACTGGAAGGGCTGGGGACCGAGGGCTCCCCTGCCTCTGTTCTCC  
TTTCTGACCCACTGGGATTTGCTAGCAGGCTGCCCCAGCCCCATCACCGAAACACATACTCAAGAGCTCAAATAC  
CACTGCTCCCAACAGCGTACGGATTAAGTTTCATCAGGCTTCCATCGGCTGGAGCATGGGACCATAGCCCCTGCCC  
AGGAGCCGTACCCTCGGACCACAGTGGCTCTGTATGGCCAGGAAGTGGGACTCGAGCTTTCAGATTCTCAACTAG  
CCTTGGCAAAACAGCTGTAGGTGGCCTCCCTGACAACAGACACTCAGCCCTCCCCACCCTGGCTCTCCTTGCAAT  
TCCCCATGCTCCCCACCCCCTGGCAAAAGGCTGGCCATGCTCTGTTCCAGCAGCCGCGCAGGTTTCCCCACTGG  
CTGCAATGGCCCTACCAAAGCCATGTTGCATATCCGTTGTAAGCACGTGCCCTGTGCCCTGTCCCCATTCTTA  
TGCCCTAGGAGGCCAAGCTGGTGTCTCTAGGAGGGCCACACAGGCACCCTGGATCCCCCAGAGAGTAGATTGGT  
GTGCTCAGGCCGCGAGGCTGACTCAGAGGTAGGGCAGTGGGCTCTGCAGGCCACCTGGCTGGGGTTGGTGGGGCTC  
CTCTCTCCTGCCCCAGCTTCCACTCAGCCACCACAGTTGCCACACCATGGGGTGGAGACGTGGGTACCCACGGGC  
TTGGGAGCAAGCGCTTCTGCAGCACAGGAAGCCGAAGCTGGGGTCAAGGTGAGGTGCTACCCCTGGAGGTCTGG  
CATAAGGGCCCCACCCTCAGGTCTCCTACACTGGCCCCATTTTACTTTGGGGTCCAAGGACAGGATGGTCAACAG  
GGCAGGGTGGACAGCGTGCCAGCGCCGCGCAGGGCCACCTCCCTGGGTGGATGCATCACACTAAGGAAGTGAGTG  
CCAAGGGGATTTAGTGGTGTGGTTCTTTCAAAGGGAGGTCAAGGTCAATGGGAATCTGCTCGGACACTCAACATG  
GGGGTGGGTGCACTCCTTGAGGAGGAGGAACACGTTCAAGGGATTGTGAGGTCTTGACAAGCCACGTGGGGCA  
CCTTGGCTTCCCGGCAGGAGGTGGACACCCAGCCAGAGGCCTGGCTCAAGGTGACCTCACCTTACCATGGGCTT  
CCTGGGTGCGCGGGCCTGAGCGCAGGTTGTTTTGTACATATTGGAATATGTGTTAACTTATGCCCCGATCCCAA  
CTCACACGGAAGCACGGGTCTTGTCTCAGTCTCTTCGCTGCATTGGAAGCAGTCTCCTCTCGGGCCAGCGCCG  
GGCTGAGGTGTCCAGAGGCGGCGGCAGCTGGCAGTGCCTCAGCCCCAAGTGTCCAGCCTGGCACTTCCCATTC  
AGGCCACCTGCTTTGGGTCAACAGTTCTTTTGGCAGCAGCATCTCTAAATTGTAAGGACTCTGTCCACCGGGGC  
CCTCCCAGGGCTGTGAGGACGGAACAGGCAGGGAGTGGAGCTAACAGCTTAGTCACCAGGACCCCCAGACCTGC  
AAACGTCCCCCTCTGGAAGGGGAAGCCAGGAACAGCAGAAGTGGCCACAAAACAAGGCTGTGAACTTTTGGGAA  
CTGGAACGTGTTAACTTGAACCCAGGATTGTTTAAAGCTTTATTTATTTATAGCTTCTTCTTAAAAAAAGTGTT  
GAAGAAATTTTTTGGTTATTATACAAAAAATGAGTTGATGATGGAAAAGCAAGTCATAATCATCTAATTGTTT  
TTGTCTAGGTGAGAAATGAATGTTAGCTGATGAAATAAACCTGACAAGG



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**FIGURE 863**

MLADLSLVGCYNLSFIPEGKRAQLLLESAKKNLRGMAFFGLTEFQRKTQYLFERTFNLKFIRPFMQYNSTRAGGV  
EVDEDTIRRIEELNDLDMQLYDYAKDLFQQRYQYKRQLERREQRLRSREERLLHRAKEALPREDADEPGRVPTED  
YMSHIIEKW

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**FIGURE 864**

GGAAAAAGCGACTTGTGGCGGTCGAGCGTGGCGCAGGCCGAATCCTCGGCACTAAGCAAATATGGACCTCGCGGC  
GGCAGCGGAGCCGGGCGCCGGCAGCCAGCACCTGGAGGTCCGCGACGAGGTGGCCGAGAAGTGCCAGAACTGTT  
CCTGGACTTCTTGGAGGAGTTTCAGAGCAGCGATGGAGAAATTAATACTTGCAATTAGCAGAGGAACTGATTGCG  
TCCTGAGAGAAACACATTGGTTGTGAGTTTTGTGGACCTGGAACAATTTAACCAGCAACTTTCCACCACCATTCA  
AGAGGAGTTCTATAGAGTTTACCCTTACCTGTGTGCGGCCCTTGAACACATTTCGTCAAAGACCGTAAAGAGATCCC  
TCTTGCCAAGGATTTTTATGTTGCATTCCAAGACCTGCCTACCAGACACAAGATTTCGAGAGCTCACCTCATCCAG  
AATTGGTTTGTCTACTCGCATCAGTGGGCAGGTGGTGCGGACTCACCCAGTTTACCCAGAGCTTGTGAGCGGAAC  
TTTTCTGTGCTTGGACTGTGACAGATGATCAGGGATGTAGAACAGCAGTTCAAATACACACAGCCAAACATCTG  
CCGAAATCCAGTTTGTGCCAACAGGAGGAGATTCTTACTGGATACAAATAAATCAAGATTTGTTGATTTTCAAAA  
GGTTCGTATTCAAGAGACCCAAGCTGAGCTTCTTCGAGGGAGTATCCCCCGCAGTTTAGAAGTAATTTAAGGGC  
TGAAGCTGTGGAATCAGCTCAAGCTGGTGACAAGTGTGACTTTACAGGGACACTGATTGTTGTGCTGACGTCTC  
CAAGCTTAGCACACCAGGAGCACGTGCAGAACTAATTCCCGTGTGAGTGGTGTGATGGATATGAGACAGAAGG  
CATTGAGGACTCCGGGCCCTTGGTGTAGGGACCTTTCTTATAGGCTGGTCTTTCTTGCCTGCTGTGTTGCGCC  
AACCAACCAAGGTTTGGGGGGAAAGAGCTCAGAGATGAGGAACAGACAGCTGAGAGCATTAGAACCATAATGAC  
TGTGAAAGAATGGGAGAAAGTGTGTTGAGATGAGTCAAGATAAAAATCTATACCACAATCTTTGTACCAGCCTGTT  
CCCTACTATACATGGCAATGATGAAGTAAACGGGGTGTCTGCTGATGCTCTTTGGTGGCGTTCCAAAGACAAC  
AGGAGAAGGGACCTCTCTTCGAGGGGACATAAATGTTTGCATTGTTGGTGACCCAAGTACAGCTAAGAGCCAATT  
TCTCAAGCACGTGGAGGAGTTACAGCCCCAGAGCTGTCTACACCAGTGGTAAAGCGTCCAGTGTGCTGGCTTAAC  
AGCAGCTGTTGTGAGAGATGAAGAATCTCATGAGTTTGTGATTGAGGCTGGAGCTTTGATGTTGGCTGATAATGG  
TGTGTGTTGTATTGATGAATTTGATAAGATGGACGTGCGGGATCAAGTTGCTATTTCATGAAGCTATGGAACAGCA  
GACCATATCCATCACTAAAGCAGGAGTGAAGGCTACTCTGAACGCCCCGACGTCCATTTTGGCAGCAGCAAAACC  
AATCAGTGGACACTATGACAGATCAAAATCATTGAAACAGAATATAAATTTGTCAGCTCCCATCATGTCCCGATT  
CGATCTCTTCTTTATCCTTGTGGATGAATGTAATGAGGTTACAGATTATGCCATTGCCAGGCGCATAGTAGATTT  
GCATTCAAGAATTGAGGAATCAATTGATCGTGTCTATTCCCTCGATGATATCAGAAGATATCTTCTCTTTGCAAG  
ACAGTTTAAACCAAGATTTCCAAAGAGTCAGAGGACTTCATTGTGGAGCAATATAAACATCTCCGCCAGAGAGA  
TGGTTCTGGAGTGACCAAGTCTTCATGGAGGATTACAGTGCGACAGCTTGAGAGCATGATTTCGTCTCTCTGAAGC  
TATGGCTCGGATGCACTGCTGTGATGAGGTCCAACCTAAACATGTGAAGGAAGCTTTCCGGTTACTGAATAAATC  
AATCATCCGTGTGGAAACACCTGATGTCAATCTAGATCAAGAGGAAGAGATCCAGATGGAGGTAGATGAGGGTGC  
TGGTGGCATCAATGGTCATGCTGACAGCCCTGCTCCTGTGAACGGGATCAATGGCTACAATGAAGACATAAATCA  
AGAGTCTGCTCCCAAAGCCTCCTTAAGGCTGGGCTTCTCTGAGTACTGCCGAATCTCTAACCTTATTGTGCTTCA  
CCTCAGAAAGGTGGAAGAAGAAGAGGACGAGTCAGCATTAAAGAGGAGCGAGCTTGTTAACTGGTACTTGAAGGA  
AATCGAATCAGAGATAGACTCTGAAGAAGAACTTATAAATAAAAAAAGAATCATAGAGAAAGTTATTCATCGACT  
CACACACTATGATCATGTTCTAATTGAGCTCACCCAGGCTGGATTGAAAGGCTCCACAGAGGGAAGTGAGAGCTA  
TGAAGAAGATCCCTACTTGGTAGTTAACCTAACTACTTGTCTGAAGATTGAGATAGTGAAAGTAAGTACCAGA  
GCTGAGGAAGTGTGGCAGACACCTCGTGGCCTGGAGCCTGGCTGGAGCTCTGCTAGGGACAGAAGTGTCTG  
AAGTGTGCTTCCAGGATTTGTTTTTCAGAAACAAGAATTGAGTTGATGGTCTTATGTGTCACATTATCACAGGT  
TTCATACCAACACAGGCTTCAGCACTTCCCTTGGTGTGTTTCCCTGTCCAGTGAAGTTGGAACCAATAATGTGT  
AGTCTCTATAACCAATACCTTTGTTTTTCATGTGTAAGAAAAGGCCATTACTTTTAAGGTATGTGCTGTCTATT  
GAGCAAATAACTTTTTTTCAATTGCCAGCTACTGCTTTTATTATCAAAATAAAATAACTTGTCTG

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**FIGURE 865**

MDLAAAEPGAGSQHLEVRDEVAEKCQKLFDFLEEFQSSDGEIKYLQLAEELIRPERNTLVVSFVDLEQFNQQQL  
STTIQEEFYRVYPYLCRALKTFVKDRKEIPLAKDFYVAFQDLPTRHKIRELTSSRIGLLTRISGQVVRTHPVHPE  
LVSGTFLCLDCQTVIRDVEQQFKYTQPNICRNPVCANRRRFLDITNKS RFVDFQKVRIQETQAE LPRGSIPRSLE  
VILRAEAVESAQAGDKCDFTGTLIVVPDVSKLSTPGARAETNSRVSGVDGYETEGIRGLRALGVRDLSYRLVFLA  
CCVAPTNPFRFGGKELRDEEQTAESIKNQMTVKEWEKVFEMSQDKNLYHNLCTSLFPTI HGNDDEVKRGVLLMLFGG  
VPKTTGEGTSLRGDINVCIVGDPSTAKSQFLKHVEEFSPRAVYTS GKASSAAGLTAAVVRDEESHEFVIEAGALM  
LADNGVCCIDEFDKMDVRDQVAIHEAMEQQTISITKAQVKATLNARTSILAAANPISGHYDRSKSLKQNINLSAP  
IMSRFDLFFILVDECNEVTDYAIARRIVDLHSRIEESIDRVYSLDDIRRYLLFARQFKPKISKESEDFIVEQYKH  
LRQRDGS GVTKSSWRITVRQLESMIRLSEAMARMHCCDEVQPKHVKEAFRLLNKSIIRVETPDVNL DQEEEIQME  
VDEGAGGINGHADSPAPVNGINGYNEDINQESAPKASLR LGFSEYCRISNLIVLHLRKVEEEEDESALKRSELVN  
WYLKEIESEIDSEEELINKKRIIEKVIHRLTHYDHVLIELTQAGLKGSTEGSESYEEDPYLVVNP NYLLED

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**FIGURE 866**

CCGGGATCTCGAGATAGCCGCGAGCTCTCGCGATCTTTCTGGAGCCGCACCTCCACGCGGAGTCCGAGCGCGTGTG  
CTGAGACCCAGGGTCGGGAGGGCGGAGACTGGGAGGGAGGGAGAAGCCCCCTTTGGCCTGCCTTACGGAAGCCTG  
CGAGGGAGGGGTGGTGTCCACTGCCCAGTTCCGTGTCCCGATGCCAGCGCCAGCGCCAGCCGCAAGAGTCAGGAG  
AAGCCGCGGGGAGATCATGGACGCGGCGGAAGATTATGCTAAAGAGAGATATGGAATATCTTCAATGATACAATCA  
CAAGAAAAACCAGATCGAGTTTTTGGTTCGGGTTAGAGACTTGACAATACAAAAAGCTGATGAAGTTGTTTGGGTA  
CGTGCAAGAGTTTCATACAAGCAGAGCTAAAGGGAAACAGTGCTTCTTAGTCCTACGTCAGCAGCAGTTTAATGTC  
CAGGCTCTTGTGGCGGTGGGAGACCATGCAAGCAAGCAGATGGTTAAATTTGCTGCCAACATCAACAAAGAGAGC  
ATTGTGGATGTAGAAGGTGTTGTGAGAAAAGTGAATCAGAAAATTGGAAGCTGTACACAGCAAGACGTTGAGTTA  
CATGTTTCAAGATTTATGTGATCAGTTTGGCTGAACCCCGTCTGCCCCCTGCAGCTGGATGATGCTGTTTCGGCCT  
GAGGCAGAAGGAGAAGAGGAAGGAAGAGCTACTGTTAACCAGGATACAAGATTAGACAACAGAGTCATTGATCTT  
AGGACATCAACTAGTCAGGCAGTCTTCCGTCTCCAGTCTGGCATCTGCCATCTCTTCCGAGAACTTTAATTAAC  
AAAGGTTTTGTGGAATCCAACTCCTAAAATTATTTTCTAGCTGCCAGTGAAGGAGGAGCCAATGTTTTTACTGTG  
TCATATTTTAAAAATAATGCATACCTGGCTCAGTCCCCACAGCTATATAAGCAAATGTGCATTTGTGCTGATTTT  
GAGAAGGTTTTCTCTATTGGACCAGTATTCAGAGCGGAAGACTCTAATACCCATAGACATCTAACTGAGTTTGTT  
GGTTTGGACATTGAAATGGCTTTTAATTACCATTACCACGAAGTTATGGAAGAAATTGCTGACACCATGGTACAA  
ATATTCAAAGGACTTCAAGAAAGGTTTCAGACTGAAATTCAAACAGTGAATAAACAGTTCCCATGTGAGCCATTC  
AAATTTTTGGAGCCAACCTCTAAGACTAGAATATTGTGAAGCATTGGCTATGCTTAGGGAAGCTGGAGTCGAAATG  
GGAGATGAAGACGATCTGAGCACACCAATGAAAAGCTGTTGGGTCAATTTGGTAAAGGAAAAGTATGATACAGAT  
TTTTATATTTCTTGATAAATATCCATTGGCTGTAAGACCTTTCTATACCATGCCTGACCCAAGAAATCCCAAACAG  
TCCAACCTCTTACGATATGTTTCATGAGAGGAGAAGAAATATTGTCAGGAGCTCAAAGAATACATGATCCTCAACTG  
CTAACAGAGAGAGCTTTACATCATGGAATTGATTTGGAGAAAATTAAGGCTTACATTGATTCTTCCGCTTTGGA  
GCCCCCTCCTCATGCTGGTGGAGGCATTGGATTGGAACGAGTTACTATGCTGTTTCTGGGATTGCATAATGTTTCGT  
CAGACCCTCATGTTCCCTCGTGATCCCAAACGACTCACTCCTTAAATTCACACTTTGCCACTTAACTCCAGTGTG  
GATGACAGAGCGAGACCCTGCCTCAAAAAAAAAAAAAAAAAAAGAAAGCCACACTTATTCTTTTCAGTAACCTGC  
TAGTGACAGGCTGTACTTTAGGTACTTAAAATATGCACTAGATAAATTTGCAAGGCCCTAAAATATCACTGTT  
ATTTTTGGAGTAATTCAGTATAGGTTTCGTTTAAAAGAGATTTTTATAACTTCAGACATGCATCAGTAGGAAATAA  
CTTGAGAAATTCATATGGTTATGTTACAAATTCATATTCTGTTACTACAGTAAACGTTAAGAGTTTTAAACAGTT  
AAGATTGTACAATTTTTCTTCTTTCTATATTACAAGGGCCCCAGTGTTAATGTCTTAGATTTTCAGTATTTGAA  
CTTATTTTTTTAAATTCGTGATTGAGATAAGAATAATTCAGGTAGCATCTGAAATTTAATGAATGTATAATTG  
GCATATCATGGAATAATTAACCAGAAAGTATCAGTTCTTAAAAGTTATGCCTAGAAATTATGTAAAGCTAAACTAC  
TGGTTAGAAAGTATTCAGTGTAATATTGTATTAATTTGTTAAATTCTAAACTTGAATTTCAATAAAATTTTAAAG  
CT

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**FIGURE 867**

ATGACAAAGAAAAATGCCTGCATGGGCCTTGTTTTCCAGATTCAATCAAGGCTCAAAGCTTTTATCTTGTTCTTA  
ATAGCACCTTGACCCGATAGAGCCCGGCAAGGCTTTGCGGGCCTTAATTATTTCCCAAGATCGATGAGACCCCT  
CAGCCCCCTGGGCAGCAGCATCCACGGCAGTTTTCCAGATGGATGAGCTGCGTCGAAAGCTGCAGAGCAGACAG  
GGATGCAGACAAGGTCCAGCACGCCCAGCAGAGCCTGCGGCCTGCGGGTTCCTCGGGCGGATGGCACTGCAAAAT  
TCAGCCCTTAATTCAATCAATATGTGCCTTCGAGGAGTTTATAGTCATGGTTTGGTATGGTTGGTATGTGATGCA  
CACAAAGCAGAGACAGCTGCATGTAGAAGGGCAGGGGAGCATGGAGGCCCCAGTACAGCCAGGAGGCCCCCTGGAG  
CTTCAGGCAGCAGGACATGGGTCTGGATCTGTAGTCAGAGGGGAGGTCAGGAAAGAGCTTGTACACCAGCAAAAG  
ATTGGATCCTGTGGTTCTCAAACCCTTATTAGTCCTGGAGCTGTGTTTTCAAGGAAATTCTGCAGAAGAACAGCAG  
TTCCCTTGCAAGGATGACCCCAGGGCCCCCTGGTTCCCAGCAGCTCCAAGATGAGATGGCAGAAAGGGAGAGGGGG  
AACCAAGGAGAGGGAAGGAGGAAATATATTAGTGACAGCTGCCCCAACGTCCCTCAAGGACAAGCACAAAGGGGT  
GGTGTGGACAAGCATAATGCAATTGGCCCAGGGACAGGCCATAGACCCCACTTCCAAACCCCATTTCTCCTCACA  
GCCCAGGGCCTGAAGGGAACCCGCTGGATGCAAAGCCGAGGTCACCCAGAGATGGAGGTGGACAGACAGTGTGGG  
ATGGCCCTGCACCCCTGAAACTCCCAGGCACTACCTTGCAATTGTCAGTTTCTAATTTTACACACACTGGGGAGAGG  
TCTGCTGTGGGCCAGGCTGGCCACCAGCGCTGGGTAAGTAGGGACTGGCCTAGCCACAGGCCTCAAGGATGCCGA  
AGTCTGGTGGGGGAGACAAGCATGGAGAGAGACAGAGATGGCAGAGGCCAGGACAGGAAGCCTCTGGGCATCCTG  
GCTGAGGACAGGGTGGCACACCCAGAGGAGAGTGAATCGTGGAAATGCCGAAAGCTAAAGAGAAGATTCCACCA  
GAGATCACAGAGCAGAACATGCAAAAGTATAAAATTGCCCAACCACCGTCACTCACGGACCCCTTTGTCCCTTC  
TCTTCCCCTCCACCCCATAGAAGTTTGGCTGACAACCACGGGTTTCATACCACATTTCCACATATGGGAAGAATCT  
GTGGCCCAGAGTGGTTACATTAGAGCACCTCCTCCCCTGAGAGCCACACAAGGGCCCATAACACCTTCCAGTTCA  
TGGCTCCACCTTTGTCTGCTCTCACAACCTTCCCAGACCTGGCCTATACCCACATGTTATTAAATAATCTTCTA  
GATATGCCTTTAGGATTTGCTGCAAAGACACTTGAGATAAAGTATCTGTGAGAACCAACCTGGGATGTAGCCAAA  
GCTAAGGAATATGTCTGTTCTGTGGAGAGCAGATGATCAATAGGTGGTTCCAGCTAATGGAGTGAAGTGGAGCA  
AGGCTCATAGGCCTTTTCACTTCCATCAAAGGAAGATAAGTCCCCTCACTATTGTCCCTGGAGGAACTGTGAGGTC  
TTCTTATATTTGCATGTATGTGCCAAAGAGAGACATGTAAAAACCAGAGCCCGGAGACATAGAGAAGATCATTCA  
AAAGCACATGCCAAGCTAAAGACAATACCAGGGACAGGACCTCATCTTCTGACTCTTGGTCCAGTTCTCCCTCCA  
ACTCAGCAAACAGCCTTTGGATTCCACTTGGGAAATATGGAACTGAACAGCCAGAAGAAACCTTCCCTAACACT  
GAAACCAGTGGTGAATTTGGTAAACGCCCTGCAGAAGATATGGAAGAGGAACAAGCATTTAAAGATCTAGAAAC  
ACTGATGAGATGGTTGAATTACCCATTCTGCTTCAGAGCAAGAATGCTGGAGCAGTGAAGTGGAAAAGGAGGCAAG  
AATATTAAGGCTCTCCATACAGACTACAACGCCAGCATTTCAGTTCTAGACAGCAGTGGCCCCCAGCATATATTG  
CATATCAGTGTGATATCGAAACAATTGGAGAAATTCTGAAGAAAATCATCACTACCTTGGAAGAGGGCCCGCAG  
TTGCCATCACCCACTGCAACCAGCCAGCTCCCGCTCGAATCTGATGCTGTGGAATACTTAAATTACCAACAATAT  
AAAGGAAGGGACTTTGACTGCGAGTTGAGGCTGTTGATTCATCAGAGTCTAGCAGGAGGAATTATTGGGGAATGT  
TGTCTCATTTCACTGATAGAGTTGTTCTTATTGGAGGAAAACCCAATAGGGTTGTAGAGTGCATAAAGATCATC  
CTTGATCTTATTTCTGAGTCTCCCATCAAAGGACATGCACAGCCTTATGATCCCAATTTTTTACGATGAAACCTAT  
GATTATGGTGGTTTTACAATGGTGGTTTGTGACGACCGTGGACGCCCAGGGGGAGACCTCATGACCTATAACAGA  
AAAGGGAGACCTGGAACCGTTACGACGGCGTGGTTGATTTTCACTGCTGATGAAACTTGGGGCTCTGCAATAGAT  
ACATGGAACGCATCAGAATGGCAGATGGCTTATGAACCACAGGGTGGCTCCAGATATGATTATTCTATGCAGGG  
TGTCATGGCTCATATGGTGTCTTGGTGGACCTATTATTACTACACAAGGAGCTTTGATCAAAATTGATGAGCCT  
TTAGAAGGATCCGAAGATCGGATCATTACCATTACAGGAACACAGGACCAGATACAGAATGCACAGTATTTGCCG  
CAGAATAGTGTGAAGCAGTATTCTGGAAGTTTTTCTAA

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**FIGURE 868**

MTKKNACMGLVLFQIQSRLKAFILFLIAPCTDRARQGFAGLNYFPKIDETPPPGQQHPTAVFQMDLRRKLQSRQ  
GCRQGPAPPAEPAACGFLGRMALQNSALNSINMCLRGVYSHGLVWLVCDAHKAETAACRRAGEHGGPSTARRPLE  
LQAAGHSGSGSVVRGEVRKELVHQQKIGSCGSQTILISPGAVFQGNSAEEQQFPCKDDPRAPGSQQQLQDEMAERERG  
NQGEGRRKYIQCSCPVPVQQAQRGGVDKHNAIGPGTGHRPHFQTPFLLTAQGLKGTRWMQSRGHPHEMEVDRQCG  
MALHPETPRHYLALSVSNTHTGERSAVGQAGHQRWVSRDWP SHRPQGCRSLVGETSMERDRDGRGQDRKPLGIL  
AEDRVAHPEESESWKCRKLKRRFPPEITEQNMQKYKIAQPPSLTDPFVPFSSPPPHRSLADNHGFIPHFHIWEES  
VAQSGYIRAPPPLRATQGFIPSSSWLHLCPALTTFPDLAYTHMLLNNLLDMPLGFAAKTLEIKYLSEPTWDVAK  
AKEYVLFCEQMINRWFPANGVTGARLIGLSVPSKEDKSPLIVPGGNCEVFLYLHVCAKERHVKTRARRHREDHS  
KAHAKLKTIPGTGPHLLTLGPVLPPTQQTAFGFHLGNMETEQPEETFPNTETSGEFGKRP AEDMEEEQAFKRSRN  
TDEMVELPILLQSKNAGAVTGKGGKNIKALHTDYNASISVLDSSGPQHILHISADIETIGEILKKIITTEEGPQ  
LPSP TATSQ LPLESDAVEYLYNYQQYKGRDFDCELRLLIHQSLAGGIIGECPPHFTDRVVLIGGKPNRVVECIKI  
LDLISESPIKGHAQPYDPNFYDETYDYGFTMVFADDRGRPGGDLMTYNRKGRPGNRYDGVVDFSADETWGS  
AID  
TWNASEWQ MAYEPQGGSRYDYSYAGCHGSYGD LGGP IITTOGALIKIDEPLEGSEDRIITITGTQDQIQNAQYLP  
QNSVKQYSGKFF

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**FIGURE 869**

ATGAAGCAGTTAATTACCCCTGCTAAACAGCAGGAAGCATTGAGCAAAAACTCTGCTCACCTTCCTCAATCAGA  
GGACATTTCTGCTCATCAGTCAAGCAGGCAGACCACAGGACTCTCAGACAAAGGCTGAGAGGTAGACTGATGAGG  
AGGAGACTGTCAGTGAGCACAAAGGCCTTAAGATTAGCGACTGAAGGCTCCTGGAATGAGTATGTGGTTAGAGAC  
TGGAATACTCAGGAGTTTCCCTAGGTCTGCTCCAAATAGCACAAAGCAATGGATGATGAAGGATCCATGTTAATA  
GCAGTGGATCCACAGTGCAGATTTTCAGGTGATCTGCTCCCTACGACTCACTAATTGGAGTCCCATTGGCCCCC  
CATGTGACCCTCTTGGATAAAAAATCAAAATGGCTCTCGTCTTGTTTGTTTCTCCTGTTTGCCCCCAGTCAGGGCT  
GGCACAGAGTGGCAGCTCTCTGCTCTCCACAGGGCTCCCGCTCCACCCAGCCCGATAAAGCATGCCGACTGGGC  
TACAAAGCCAAGCAAGGTTACATTATATATAGGATTTGTGTTTCGCCGTGAGGAGCAAGCTGGACACCACTGTGGG  
GCTCTAAGAGTCCTGAATTCGTACTGGGTTGGTGAAGATTCCACATACAAATTTTTTGAGGTTATCCTCATTGAT  
CCATTCCATAAAGCTATCAGAAGAAATCCTGACACCCAGTGGATCACCAAACCAGTCCACAAGCACAGGGAAATG  
CGTGGGCTGACATCTGCAGGCTTGA

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**FIGURE 870**

MKQLITPAKQQEAFEQKLCSPSSIRGHFCSSVKQADHRTLRLRGRMLMRRRLSVSTKALRLATEGSWNEYVVRD  
WNYSGLVSLGLLQIAQAMDEGSMLIAVDPQCRFSGDLLPYDSLIGVPLAPHVTLLDKNQNGSRLVCFSCLPVRA  
GTEWQLSALHRAPRSTQPDKACRLGYKAKQGYIIYRICVRREEQAGHHCGALRVLSYWVGEDSTYKFFEVLID  
PFHKAIRRNPDQTQWITKPVHKKHREMRGLTSAG



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**FIGURE 871**

ATGTGGGGCGACCTCTGGCTCCTCCCGCCTGCCTCTGCCAATCCGGGCACTGGGACAGAGGCTGAGTTTGAGAAA  
GCTGCAGAGGAGGTTAGGCACCTTAAGACCAAGCCATCGGATGAGGAGATGCTGTTTCATCTATGGCCACTACAAA  
CAAGCAACTGTGGGCGACATAAATACAGAACGGCCCGGGATGTTGGACTTCACGGGCAAGGCCAAGTGGGATGCC  
TGGAATGAGCTGAAAGGGACTTCCAAGGAAGATGCCATGAAAGCTTACATCAACAAAGTAGAAGAGCTAAAGAAA  
AAATACGGGATATTGAGAGACTGGATTTGGTTACTGTGCCATGTGTTTATCCTAAACTGAGACAATGCCTTGTTTT  
TTTCTAATACCGTGGATGGTGGGAATTCGGGAAAATAACCAGTTAAACCAGCTACTCAAGGCTGCTCACCATACG  
GCTCTAACAGATTAGGGGCTAAAACGATTACTGACTTTCCTTGAGTAGTTTTTATCTGAAATCAATTAAAAGTGT  
ATTTGTTACTTT

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**FIGURE 872**

MWGDWLWLLPPASANPGTGTEAEFEKAAEEVRHLKTKPSDEEMLFIYGHYKQATVGDINTERPGMLDFTGKAKWDA  
WNELKGTSKEDAMKAYINKVEELKKKYGI

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**FIGURE 873**

GTTTAGGGGCTGGTACAAAGGATGAATTGCACATTGTTGAAGTAGAGGCAATGAATTACAAAGGCAGTCCAATTA  
AAGTAACACTGGCAACTTTGAAAATGTCTGTACAGCCAAAGGATTCCCTTGGAGGCTTTGAAATCACACCACCAG  
TGGTCTTACGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTAGCTGTGGAGGAAGATG  
CAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAAACTCTTAAGTGTATCTGGAAAGCGGTTCGGCCCCGTGGAGGTG  
GTAGCAAGATTCCACAGAAAAAAGTAAAAAGTTGCTGCTGATGAAGATGAAGATGATGATGATGAGGATTTTGATG  
ATGGGGAAGCTGAAGAAAAAGCGCCGGTGAAGAAATCCATACGAGATACTCCAGCCAAAAATGCACAAAAGTCAA  
ATCAGAATGGAAGAACTCAAAACCGTCAACACCAAGATCAAAAGGACAAGACTCCTTCAAAAAACAGGAAAAA  
ACTTCTAAAACACCGAAAGGACCTAGTTCCATAGAAGACATTAAAGCGAAAATGCAAGCAAGTATAGAAAAAGCG  
CATTGAACAGTCCTGGGCACTGCTGGTAAATTAAGCCCAAAGATGGGGAGAAAGGAAAAGGAGAGACAAATATAG  
TCCATACTGAG

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**FIGURE 874**

MNYKGSPIKVTLATLKMSVQPKDSLGGFEITPPVVLRLKCGSGPVHISGQHLVAVEEDAEESEDEEEEDVKLLSVS  
GKRSARGGGSKIPQKKVKVADEDEDDDDDEDFDDGEAEEKAPVKKSIRDTPAKNAQKSNQNGKDSKPSTPRSKGQ  
DSFKKTGKNF

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**FIGURE 875**

AGCGGGTTTGC GGGAGCGCCGCGTGGTTAGCGTCGGCGGCTTTTGGCATGGCGACTTTTTCTGGCCCGGCTGGGC  
CAATCCTGTGCTTAATCCGCAGGAAGATGTCGAGTTTCAAAGGAGGTGGCGCAGGTTTCGCAAGCGCATAACCC  
AGCGAAAAAACAAGAACAACCTACTCCTGGAGTAGTCTATGTGCGCCACCTACCTAACCTACTTGACGAAACCC  
AGATCTTTTCATATTTCTCCCAGTTTGGCACTGTGACACGGTTCAGGCTGTCCAGAAGTAAAAGGACTGGAAATA  
GCAAAGGCTATGCATTTGTGGAGTTTGAGTCTGAGGATGTTGCCAAAATAGTTGCTGAAACAATGAACAACCTACC  
TGTTTGGTGAAAGACTCTTGAGTGTCATTTTATGCCACCTGAAAAAGTACATAAAGAAGTCTTTAAAGACTGGA  
ATATTCCATTTAAGCAGCCATCATATCAATCAGTGAAACGGTATAATCGGAATCGGACACTAACACAAAAGCTAC  
GGATGGAGGAGCGATTTAAAAAGAAAAGATTACTCAGGAAGAAATTAGCTAAAAAGGAATTGACTATGATT  
TTCCTTCTTTGATTTTACAGAAAACGGAAAAGTATTTCAAAAACCTAATCGTCAGACGTCTACAAAAGGCCAGGTTT  
TACGTAAGAAGAAGAAAAAAGTTTTCAGGTACTCTTGACACTCCTGAGAAGACTGTGGATAGCCAGGGCCCCACAC  
CAGTTTGTACACCAACATTTTTTGGAGAGGCGAAAATCTCAAGTGGCTGAACTGAATGATGATGATAAAGATGATG  
AAATAGTTTTCAAACAGCCCATATCCTGTGTAAAAGAAGAAATACAAGAGACTCAAACACCTACACATTCACGGA  
AAAAAGACGAAGAAGCAGCAATCAGTGATTTCAATGTATTATATTTCTTTTGAAAAATATAATATTTTTATGA  
GAGTGGACTTTGTATTTCACTAGGTACAATGGAATACAACCTTTGACAAGATTTTCAGAGGAAAAATACACTGTT  
TGGTCAAGTTAAGGAAAGCAGTGTGTAATTTTGGATTGCCTGCCCTTGGCTGAAATACAGGGGTGCATACCATCT  
TGCAGTGGCTTGGCTGACATTGCCTCTTTGTCTGGCCTCTAGTTTTCTTTTGATATTTTCATAGCTCTCCTTAGT  
TTACTCTGCCTGGATAGAAAGTTGACCACTAACTGCAGGTTTAACTACTAACTGCAGCCTTTTCTGTGCGCCAGC  
AATTAAAGACCACCAATCTTGTGTTGTCCATCTACATGTTTGTGCGGGACATTTAACTCATGGAGGTGCTTTAGA  
TTTCAACATCAGATGGTTGAAGCTGGAAGTTAATTATATGTAGAGTGAGAAGGCAGTTCCAGTTTTAGCACAGA  
TTTGTGTTATGTGTTTCAATAGAGATTCAAAAATGACTCATTTTTTACCAATAATGTTAAATTAGTTTTGG  
TTGTGCTAGCATGAATTAATAACCACCATTTTATACCAGTATCATCAGTGAAGAATTGTATTTCAAGATTCAAAC  
AATAACCAGCAATTAACTTTTTTCTACAATGTATTTGTTTGCAGTAGGACTTGGGAGTCATTGGAAAAA  
ATAATAAATTTTCCCCTTCATTAACAAAAA

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**FIGURE 876**

MATFSGPAGPILSLNPQEDVEFQKEVAQVRKRITQRKKQEQLTGCVVYVRHLPNLLDETQIFSIFSQFGTVTRFR  
LSRSKRTGNSKGYAFVEFESEDVAKIVAETMNNYLFGERLLECHFMPPEKVKELFKDOWNIPFKQPSYQSVKRYN  
RNRTLQKLRMEERFKKKERLLRKKLAKKGIDYDFPSLILQKTESISKTNRQTSTKGQVLRKKKKKVSGLDTPE  
KTVD SQGPTPVCTPTFLERRKSQVAELNDDDKDDEIVFKQPI SCVKEEIQETQTPTHSRKKRRRSSNQ

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**FIGURE 877**

CCGCGGCGTCCACACTCGCCGCGCGCGCGGCGGCCGGGCTGGACCTTGCTGGCCCGCGGCGCCATGAGCCGCAGC  
CTGGACTCGGCGCGGAGCTTCCTGGAGCGGCTGGAAGCGCGGGGCGGCCGGGAGGGGGCAGTCTCGCCGGCGAG  
TTCAGCGACATCCAGGCCTGCTCGGCCGCTGGAAGGCTGACGGCGTGTGCTCCACCGTGGCCGCGAGTCGGCCA  
GAGAACGTGAGGAAGAACCCTACAAAGACGTGCTGCCTTATGATCAGACGCGAGTAATCCTCTCCCTGCTCCAG  
GAAGAGGGACACAGCGACTACATTAATGGCAACTTCATCCGGGGCGTGGATGGAAGCCTGGCCTACATTGCCACG  
CAAGGACCCCTTGCTCACACCCTGCTAGACTTCTGGAGACTGGTCTGGGAGTTTGGGGTCAAGGTGATCCTGATG  
GCCTGTGAGAGATAGAGAATGGGCGGAAAAGGTGTGAGCGGTACTGGGCCAGGAGCAGGAGCCACTGCAGACT  
GGGCTTTTCTGCATCACTCTGATAAAGGAGAAGTGGCTGAATGAGGACATCATGCTCAGGACCCCTCAAGGTCACA  
TTCCAGAAGGAGTCCCGTTCTGTGTACCAGCTACAGTATATGTCTGGCCAGACCGTGGGGTCCCCAGCAGTCCCT  
GACCACATGCTCGCCATGGTGGAGGAAGCCCGTTCGCTCCAGGGATCTGGCCCTGAACCCCTCTGTGTCCACTGC  
AGTGCGGGTTGTGGGCGAACAGGCGTCTGTGCACCGTGGATTATGTGAGGCAGCTGCTCCTGACCCAGATGATC  
CCACCTGACTTCAGTCTCTTTGATGTGGTCTTAAGATGAGGAAGCAGCGGCCTGCGGCCGTGCAGACAGAGGAG  
CAGTACAGGTTCTGTACCACACGGTGGCTCAGATGTTCTGCTCCACACTCCAGAATGCCAGCCCCCACTACCAG  
AACATCAAAGAGAATTGTGCCCCACTCTACGACGATGCCCTCTTCTCCGGACTCCCCAGGCACTTCTCGCCATA  
CCCCGCCCACCAGGAGGGGTCTCAGGAGCATCTCTGTGCCGGGTCCCCGGGCCACGCCATGGCTGACACCTAC  
GCGGTGGTGCAGAAGCGCGGGGCTCCAGCGGGCGCCGGGAGTGGGACGCAGACGGGGACGGGGACGGGGACGGGG  
GCGCGCAGCGCGGAGGAGGCGCCGCTCTACAGCAAGGTGACGCCGCGCGCCAGCGACCCGGGGCGCACGCGGAG  
GACGCGAGGGGGACGCTGCCTGGCCGCGTTCTCTGCTGACCAAAGTCTTGCCTGATCTGGCGCCTACGAGGACGTG  
GCGGGTGGAGCTCAGACCGGTGGGCTAGGTTTCAACCTGCGCATTGGGAGGCCGAAGGGTCCCCGGGACCCGCT  
GCTGAGTGGACCCGGGTGTAAGTCTAACGCCAGTTCTTGCTGCTTGTGCTCTTGTGAGCTCGGACTGCTGATGCC  
CGGTGCTGCTGAGCGCCGTGCGCAGAATGGAAACAGTGGGCTGGATCAAAGTTAAAGTTTCTCAGGGTGGGAAA  
TGTGGGGGCTTTGCCCAATGACTGTAGCATTCAAGGCTTGAGGCTGGAGGAGGTAGCTAGGGTATAGTGGCTGG  
TGAGGCTGCACAGAGCAGATTCAAGAAAGAAGATCAGGAAGGGGCATGACCCCTGAGTTATGAAGGGGAGAAGGG  
ACAGATGAGCTTCCGGAGACTGCTCTCCTCACACACAGCACTAGTCCATCCTCAGCACCTGAGCCTCCCTCACT  
TGGACACTCAGGGGACCACACAGAGAAGTGGATGGACACTTCGCCATCCAGGCAGAACTAAGCCAGGCATAACCA  
CAGCCAAGCAGATTAAACCCAGGCAGACCGATAAAAAGACCTCCAGATAGGCAGACAGACAGATGGACCACCAAC  
CTGGACAGACAGCCAAAGCTTCAGAGATACAGTCCACAGGTGGACAAAGGGATCCCCAGCCAGAGAGAGAGAGAC  
CAGCCAACAGCTTGATAGACAGTGCAGCCAGAGAGACCACCAAACAGAGCCCCCAAAGACAGACATCTCTGCT  
AGCTGGACAGCCAGGTGGACCCCTAAGTTAGATTACTAGACAGATATAAACAGATCCCCTGCTGAACAGATACA  
CAGAGTTCTCAGACCCCAACCCCAACCTCAGGTGGGCTGGCTGGCTGACAGACCTTCTGGCCAGACAGACTCCTA  
ACCAACCAGATGGACTGCCAGACAGGCAGACATCAGCCACATGGAATCCTGACATCCCAGCCAGCCGGCCAGACT  
CTCATCTTGATGTCTTGATGGATGGACCCAGCTAGTCAGACATGATCCTCCAGATTGACAGACAAGTCCCCAA  
ATGAGTACACATCTCCAGCTATTAGACAGATGGACCCCAAGCAATCAGGACCTATCTAGGCAGACCCCAAGCA  
GACCCCGCCAGACAGACTCCCAACCAGACTGACCCCTTACTATTACACAGCCTGCCGAGTAGCTGGGACTACA  
GGTCTAATTTTTTTTTTTTTTAAGAAATGAGTTTTTGCCATGTTGCCAGACTGGTCTTGAACCTCCAACCTCAA  
GCAATCCTCCTGCCTCAGCCTCCCAAAGTGTGAGATTACAGGTGTGAGCCACCAGGCTCAGCCCCCTAAGATTT  
GAAACACTTTAAATGGCCCATGGTAGGGTTCTGCTAGGATAAAACATTAAAGCGGCTGTTAAAAGAAATAAAAGG  
AGGACACGTCTCTGTGC

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**FIGURE 878**

TGGAAGCGGCACTCAAGATGCTGCGCCGCGAGGCCCGCCTGCGCCGCGAGTACCTGTACCGCAAGGCCCGGGAGG  
AGGCGCAGCGCTCAGCCCAGGAGAGGAAGGAGCGGCTGCGGCGCGCGCTGGAAGAAAACCGCCTGATTCCCCTG  
AGTTACGCCGAGAGGCTCTGGCCTTACAGGGGTCCCTGGAGTTTGATGATGCTGGAGGTGAAGGTGTGACCAGCC  
ACGTGGATGATGAATACCGATGGGCAGGAGTCGAGGATCCCAAGGTTATGATCACTACCTCCCGAGACCCCAGTT  
CCCGCCTCAAGATGTTTGCAAAGGAGCTGAAGCTGGTGTTCCTGGGCGCCAGCGAATGAACCGAGGTGACATG  
AAGTGGGGGCACTGGTGGGAGCCTGCAAAGCCAACGGCGTCACCGATCTGCTGGTCGTTACGAGCATCGGGGCA  
CACCTGTGGGGCTCATCGTCAGCCACCTGCCCTTTGGTCTACTGCCTACTTCACGCTGTGCAATGTGGTCATGC  
GGCATGACATCCCAGACCTGGGCACCATGTGCGAGGCCAAGCCCCACCTCATCACACACGGCTTCTCCTCCCGCC  
TGGGCAAGCGGGTCTCTGACATCCTCCGATACCTATTTCCCGTGCCCAAAGATGACAGCCACCGGGTCATCACCT  
TCGCAAACCAGGACGACTACATATCATTCCGGCACCATGTGTATAAGAAGACAGACCACCGCAACGTGGAGCTCA  
CTGAGGTGCGGCCCCGCTTTGAGCTGAAGCTGTACATGATCCGTCTGGGCACGCTGGAGCAGGAGGCCACAGCAG  
ACGTGGAGTGGCGCTGGCACCCCTTACACCAATACCGCACGCAAGAGAGTCTTCTGAGCACCGAGTGAGCACACT  
CACCACTCAGTCAGGACATGGACTTGGAATCAGGATGGGGCTGTCATAGACAGACCCACCACTAGGAACGTGCA  
CAGAAATGGCCTGCTGAACTGGGATGTGGAATGTGGCGGGTGGAGAGGTCTGAATAAACCGTCTGTGTCATGGCA  
AAAAAAAAAAAAAAAAAAAAAAAAA



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**FIGURE 879**

MLRREARLRREYLYRKAREEAQRSAQERKERLRRRALEENRLIPTELRREALALQGSLEFDDAGGEGVTSHVDDEY  
RWAGVEDPKVMITTSRDPSSRLKMFAKELKLVFPGAQRMNRGRHEVGALVRACKANGVTDLLVVHEHRGTPVGLI  
VSHLPFGPTAYFTLCNVVMRHDIPDLGTMSEAKPHLITHGFSSRLGKRVS DILRYLFPVPKDDSHRVITFANQDD  
YISFRHHVYKKT DHRNVELTEVGPRFELKLYMIRLGTLEQEATADVEWRWHPYTN TARKRVFLSTE

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**FIGURE 880**

GGCGGCGGCAGCGGGTTCGGTTGCGCGTGACGCACGGGGTGGGAGCGGAGCCCAGGCCGGGAGCAGGCGCCTCTG  
CCAGAGACCATGGGGAACGTGTTGGCCGCCAGGTGCGCGCCCGCAGGGCCGCCACCGCCGCTGCGCCGGCCCTC  
GTGGAGCTGCCGCCACCTCCGCCCTCGCCGCCGGGCTTCACGCTGCCCGCGCTGGGAGGCGGCCTGGGCGCCGGC  
ACCAGTACGAGTCGAGGTTGGAAGTACCCCCGGGGCTGCAACTGCCAGCGCCTCAGGGGCGCCGAGGATGGG  
GCCTGCGGCTGCCTGCCCAACCCGGGCACATTGCGGGAGTGCCACCGGAAGTGCAAGGAGCTGTTTCCCATTTCAG  
ATGGAGGGTGTCAAGCTCATAGTCAACAAAGGGTTGAGTAACCATTTCCAGGTGAACCACACAGTAGCCCTCAGC  
ACAATCAGGGAGTCCAGCTACCACTTCGGGGTCACGTATGTGGGGACAAAGCAGCTGAGTCCACAGAGGCGTTC  
CTTGTATTGGTGGGTGACATGGACAACAGCGGCAGTCTCAACGCTCAGGTCATTACACAGCTGGGCCCCCGCCTC  
AGGTCCAAGATGGCCATCCAGACCCAGCAGTCGAAGTTTGTGAACTGGCAGGTGGACGGGGAGTATCGGGGCTCT  
GACTCACAGCAGCCGTAACCCCTGGGGAAACCCAGACGTCCTCGTGGGTTTCAGGAATCCTCGTAGCCCACTACCTC  
CAGAGCATCACGCCTTGCCCTGGCCCTGGGCAGAATGCTGGTCTACCAACAGCAGCCTGGGGAGGAGGGCACTGTC  
ATGTCTCTAGCTGGGAAATACACATTGAACAAGTGGTTGGCAACGGTAACGTTGGGCCAGGCGGGCATGCACGCA  
ACATACTACCACAAAGCCAGTGACCAGCTGCAGGTGGGTGTGGAGTTTGAGGCCAGCACAAAGGATGCAGGACACC  
AGCGTCTCCTTCGGGTACCAGCTGGACCTGCCCAAGGCCAAAGGCTCTGTGGATAGCAACTGGATCGTGTGTGCC  
ACGTTGGAGAAGAAGCTCCCGCCCTGCCCTGACACTGGCCCTTGGGGCCTTCCTGAATCAC

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**FIGURE 881**

AAGAACTGGCCTGTACATTTTCAAGGAATTCTTGAGAGGTTCTTGGAGAGATTCTGGGAGCCAAACACTCCATTG  
GGATCCTAGCTGTTTTAGAGAACAACCTTGTAATGGAGCCTTCATCTCTTGAGCTGCCGGCTGACACAGTGCAGCG  
CATTGCCGGCTGAACTCAAATGCCACCCAACGGATGAGAGGGTGGCTCTCCACCTAGATGAGGAAGATAAGCTGAG  
GCACCTTCAGGGAGTGCTTTTATATTCCCAAAATACAGGATCTGCCTCCAGTTGATTTATCATTAGTGAATAAAGA  
TGAAAATGCCATCTATTTCTTGGGAAATTCTCTTGGCCTTCAACCAAAATGGTTAAAACATATCTTGAAGAAGA  
ACTAGATAAGTGGGCCAAAATAGCAGCCTATGGTCATGAAGTGGGGAAGCGTCCTTGGATTACAGGAGATGAGAG  
TATTGTAGGCCTTATGAAGGACATTGTAGGAGCCAATGAGAAAGAAATAGCCCTAATGAATGCTTTGACTGTAAA  
TTTACATCTTCTAATGTTATCATTTTTTAAGCCTACGCCAAAACGATATAAAAATTCTTCTAGAAGCCAAAGCCTT  
CCCTTCTGATCATTATGCTATTGAGTCACAACTACAACCTTCACGGACTTAACATTGAAGAAAGTATGCGGATGAT  
AAAGCCAAGAGAGGGGGAAGAAACCTTAAGAATAGAGGATATCCTTGAAGTAATTGAGAAGGAAGGAGACTCAAT  
TGCAGTGATCCTGTTTCAGTGGGGTGCATTTTTACACTGGACAGCACTTTAATATTCTGCCATCACAAAAGCTGG  
ACAAGCGAAGGGTTGTTATGTTGGCTTTGATCTAGCACATGCAGTTGGAAATGTTGAACTCTACTTACATGACTG  
GGGAGTTGATTTTGCCTGCTGGTGTTCCTACAAGTATTTAAATGCAGGAGCAGGAGGAATTGCTGGTGCTTCAT  
TCATGAAAAGCATGCCCATACGATTAAACCTGCATTAGTGGGATGGTTTGGCCATGAACTCAGCACCAGATTTAA  
GATGGATAACAACTGCAGTTAATCCCTGGGGTCTGTGGATTCCGAATTTCAAATCCTCCCATTTTGTGGTCTG  
TTCCTTGCTAGCTAGTTTAGAGATCTTTAAGCAAGCGACAATGAAGGCATTGCGGAAAAAATCTGTTTTGCTAAC  
TGGCTATCTGGAATACCTGATCAAGCATAACTATGGCAAAGATAAAGCAGCAACCAAGAAACCAGTTGTGAACAT  
AATTACTCCGTCTCATGTAGAGGAGCGGGGGTGCCAGCTAACAAATAACATTTTCTGTTCCAAACAAAGATGTTTT  
CCAAGAAGTAGAAAAAGAGGAGTGGTTTGTGACAAGCGGAATCCAAATGGCATTGAGTGGCTCCAGTTCCCTCT  
CTATAATTCTTTCCATGATGTTTATAAAATTTACCAATCTGCTCACTTCTATACTTGACTCTGCAGAAACAAAAAA  
TTAGCAGTGTTTTCTAGAACAACCTTAAGCAAATTATACTGAAAGCTGCTGTGGTTATTTTCACTATTATTTCGATTT  
TTAATTATTGAAAGTATGTCACCATTGACCACATGTAACTAACAATAAATAATATACCTTAC

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**FIGURE 882**

MEPSSLELPADTVQRIAAELKCHPTDERVALHLDEEDKLRHFRECFYIPKIQDLPPVDLSLVNKDENAIYFLGNS  
LGLQPKMVKTYLEEEELDKWAKIAAYGHEVGKRPWITGDESIVGLMKDIVGANKEIALMNALTVDLHLLMLSFFK  
PTPKRYKILLEAKAFPSDHYAIESQLQLHGLNIEESMRMIKPREGEETLRIEDILEVIEKEGDSIAVILFSGVHF  
YTGQHFNIPAITKAGQAKGCYVGFDLAHAVGNVELYLHDWGVDFACWCSYKYLNAGAGGIAGAFIHEKHAHTIKP  
ALVGWFGHELSTRFKMDNKLQLIPGVCGRISNPPILLVCSLHASLEIFKQATMKALRKKSVELLTGYLEYLIKHN  
YGKDKAATKKPVVNIITPSHVEERGQQLTITFSVPNKDVFQELEKRGVVCDKRNPNNGIRVAPVPLYNFHDVYKF  
TNLLTSILDSAETKN

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**FIGURE 883**

GTGTACGGTCCGCAGCGGCAGGTGAAGTCTAGCAGAGGACGCGGCCAGGCGATTTCGGTGAAGCGATTTCCTGCAGG  
CGTTGGTTCCCCCTCTTTGACCTGGTAAATGCAGGCTTTTATGCGAGAGGATTTGAATTTGTTGAAATGAGCAGTC  
GTAAATCAAAGAGTAACAGCTTAATTCACACAGAGTGCCTTTCACAGGTACAAAGAATTTTACGTGAAAGATTTT  
GTCGTGAGAGTCCACATAGTAACCTATTTGGAGTGCAAGTACAATACAAACACTTAAGTGAGCTGCTGAAAAGAA  
CTGCTCTCCATGGAGAGAGTAACCTCTGTCCTTATTATCGGACCCCGAGGATCAGGAAAACTATGTTAATAAATC  
ATGCTTTGAAAGAACTCATGGAAATAGAAGAAGTGAGTGAAAATGTATTACAAGTTCACTTAAATGGACTGCTGC  
AGATCAATGACAAAATCGCCCTAAAGGAAATCACAAGGCAGTTAAATCTGGAAAATGTAGTTGGAGATAAAGTTT  
TTGGAAGCTTTGCTGAAAACCTTTCATTTCTTCTGGAAGCTTTAAAAAAGGTGACCGAACTAGCAGTTGCCAG  
TGATCTTCATATTAGATGAATTTGATCTTTTTGCTCATCATAAAAACCAAACACTTCTCTATAATCTTTTTGACA  
TTTCTCAGTCTGCACAGACCCCAATAGCAGTTATTGGTCTTACATGTAGATTGGATATTTTGGAACTCTTAGAAA  
AAAGAGTGAAGTCAAGATTTTCTCACCGGCAGATACACTTAATGAATTCATTTGGTTTTCCACAGTATGTTAAAA  
TATTTAAAGAACAGTTATCTCTACCTGCAGAGTTTCCAGACAAGGTTTTTGCTGAGAAGTGGAATGAAAATGTTT  
AGTATCTCTCAGAAGATAGAAGTGTGCAAGAAGTACTACAGAAGCATTTCATATCAGCAAAAACCTGCGGTCAT  
TACACATGCTATTGATGCTTGCTTTAAATCGAGTAACAGCATCGCACCCATTTATGACTGCCGTAGATCTAATGG  
AAGCAAGCCAACGTGTGTAGCATGGACTCGAAAGCAAAATATTGTACATGGTCTATCAGTCTTGGAAATCTGTCTTA  
TAATAGCAATGAAACATTTAAATGACATCTATGAGGAAGAGCCATTTAATTTTCAAATGGTCTATAATGAGTTTC  
AGAAGTTTGTTCAAAGGAAAGCACATTCGGTTTATAATTTTGAAAAACCTGTTGTCATGAAGGCTTTTGAACACT  
TGCAGCAATTAGAATTAATAAAGCCCATGGAAAGAACTTCAGGAAATTCACAGAGAGAGTACCAGCTGATGAAAC  
TGCTTTTGGATAATACTCAAATTATGAATGCTCTGCAGAAATATCCCAACTGTCCTACAGATGTGAGGCAGTGCG  
CAACATCCTCACTAAGCTGGTTATGAATATAACCAGTGACTTCAACTTTGGCATTTCATTTCATCTTCTGTAGAG  
AACGGAAAACATTTGTCCATTAAACATGATATGCTAAACATTCTATAAACATTCTTGTATTTATGTGAGACTTGCC  
CATCTACTGCTTTGGCTGIGTCTTGCCTTTTAATCATGAACAGTTACATGATTTATAATTTCACTGATTGAGATT  
ACTTTGTAAGTAGCTGTTTCAGAAGAATAAAATATGACTGTTTTAGGGACTAGACCATGTGCTTTTTTAACACTTA  
TATATATAATGGTCTATTTGAAGAGCTCACTTCAACCTAACAGCTAGATGTCTTTACAAACCTTAAACCAAAGGA  
GTAAAAAAAACAATGGTAAGCACTGAAGTATAATAAGTAACCTTTGGTACAGCAGGTTTGCTGCAGTGTTTTTTT  
CTGTCCACATGCAAATTTTGGATTCTATCCCAGACCCAGGTTTTCTAGTTCAGAAGACTAACCAGCTTAGTCAGA  
AGATGGTTCCATGGAAGAAAAAGGCAAGGAGTTTGAAGATTTTTCTTCTAGACATCTCAAAATGTGGTACTCAT  
ACCATCCACATCAGAATCCCTTGTAGGATTTTCTAAAATTACAGATTGTTGAGCCTACCATAGGTCAAAAGGACT  
GGAATTTTCTTCTTAACAAGTATAGTCATGGCACCAAGTAACATTTTGGTCAATGACATTGTATAAAGGGTGGT  
CTCATAAGATTATACCATATTTTTTACTGTACCTTTTCTATGTCTAAATATACAAATGTTTTACCATTG

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**FIGURE 884**

MSSRKSKSNSLIHTECLSQVQRILRERFCRQSPHSNLFQVQVQYKHLSELLKRTALHGESNSVLIIGPRGSGKTM  
LINHALKELMEIEEVSENVLQVHLNGLLQINDKIALKEITRQLNLENVVGDQVFGSFAENLSFLEALKKGDRS  
SCPVIFILDEFDLFAHHKNQTLNLFDISQSAQTPIAVIGLTCRLDILELLEKRVKSRSFHRQIHLMNSFGFPQ  
YVKIFKEQLSLPAEFDPKVFAEKWNENVQYLSSEDRSVQEVLOKHFNISKNLRLHMLLMALNRVTASHPFMTAV  
DLMEASQLCSMDSKANIVHGLSVLEICLI IAMKHLNDIYEEEPFNFMVYNEFQKFVQRKAHSVYNFEKPVVMKA  
FEHLQQLELIKPMERTSGNSQREYQIMKLLLDNTQIMNALQKYPNCPTDVRQWATSSLSWL

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**FIGURE 885**

ATTCCGGCACCGCAGCGTAGGTGCTACCACCGCTGCCGTCGCCGCCGCCATTTTGATGGCAGGAAGAGTCCGGTTC  
TGGGACAGCTGGAGACAGTGGTGGTGAAGTAACTTTACCAAAGGAAAGCTATTTTGCGAACTATCTTCTCC  
AGCGGAGATGGCCCAATGTGCTTTGTAACAGAGCCAGACTGGTTTCTATCTCCCAGGATTTTGCTCTTTAGTTAA  
AAGGGTTGTCAATCCCAAAGCCTTTTCGACTGCAGGATCATCAGGTTTCGGATGAGTCTCATGTGGCTGCTGCACC  
TCCAGATATATGCTCTCGAACAGTGTGGCCTGATGAAACTATGGGACCCTTTGGACCTCAAGATCAGAGGTTCCA  
GCTTCTGGGAACATAGGTTTTGATTGTCACCTCAATGGGACTGCTTCACAGAAGAAAAGCCTGGTTCATAAAAC  
TTTGCCTGATGTTCTAGCAGAACCTTTATCAAGTGAAAGACATGAGTTTGTGATGGCACAATATGTGAATGAATT  
TCAGGGTAATGATGCACCTGTTGAACAAGAAATTAACAGTGCAGAACTTACTTTGAAAGTGCCAGAGTAGAGTG  
TGCAATACAAACATGTCCAGAATTGCTGCGAAAAGATTTTGAATCACTGTTTCCAGAAGTAGCTAATGGCAAAC  
AATGATTCTGACTGTAACACAAAAAATAAGAATGATATGACTGTTTGGAGTGAAGAAGTAGAAATTGAAAGAGA  
AGTGCTCTTAGAAAAGTTTCATCAATGGTGCTAAGGAAATTTGCTATGCTCTTCGAGCTGAGGGTTATTGGGCTGA  
CTTTATTGACCCATCATCTGGTTTGGCATTTTTTTGGACCATATACAAACAACACTCTTTTTGAAACTGATGAACG  
CTACCGACATTTAGGATTCTCTGTTGATGACCTTGGATGCTGTAAAGTGATTTCGTCATAGTCTCTGGGGTACCCA  
TGTAGTTGTAGGGAGTATCTTCACTAATGCAACACCAGACAGCCATATTATGAAGAAATTAAGTGGAATTAGCA  
GAAATATCCATTCATTTGCTGTACTATTTGTATGTAATATTTGGGTTGATCTATAAACACTGTCAGACTAAAGTT  
TTTAAATATACTTATTTCTAAGTATTTATTTTCAGCATTATGAATTTGCAACATTGGCAAGTGATTTGGGATTT  
TAAATTTGCAATGTTTCATTTATTCATATCATTGAATACACGTTGAACACATCCACATTGTATAGGATGTGGTAA  
TTAGCTTGTAACCAGGGTATGATCTGCTATTGTTATTTCTCCTCTTTATTGGAAAAAGGCCTCAGTTTAAATTAT  
TTTCTTCCCAAATAAATCACACATTGGTTACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 886**

MANVLCNRARLVSYLPGFCSLVKRVVNPKAFSTAGSSGSDESHVAAAPPDICSRTVWPDETMGPFPGPDQRFQLP  
GNIGFDCHLNGTASQKKSLVHKTLDPVLAEP LSSERHEFVMAQYVNEFQGNDAPVEQEINSAETYFESARVECAI  
QTCPELLRKDFESLFPEVANGKLMILTVTQTKNDMTVWSEEVEIEREVLLEKFINGAKEICYALRAEGYWADF I  
DPSSGLAFFGPYTNNTLFETDERYRHLGFSVDDLGCCKVIRHSLWGTHVVVGSIFTNATPD SHIMKKLSGN



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**FIGURE 887**

TATCGCAAGCAGCAGTCTCTGGTCCCAGCCCACCCCATGCCCCCTCCCAGTCCCAGCACCCACCAGCAGTAATAAC  
AACAGTAGCAGCAGTAGCAACTCAGGATGGGATCAGCTCAGCAAAACGAACCTCTATATCCGAGGACTGCCTCCC  
CACACCACCGACCAGGACCTGGTGAAGCTCTGTCAACCATATGGGAAAATAGTCTCCACAAAGGCAATTTTGGAT  
AAGACAACGAACAAATGCAAAGGTTATGGTTTTGTGACTTTGACAGCCCTGCAGCAGCTCAAAAAGCTGTGTCT  
GCCCTGAAGGCCAGTGGGGTTCAAGCTCAAATGGCAAAGCAACAGGAACAAGATCCTACCAACCTCTACATTTCT  
AATTTGCCACTCTCCATGGATGAGCAAGAAGTACAAAATATGCTCAAACCATTTGGACAAGTTATTTCTACAAGG  
ATACTACGTGATTCCAGTGGTACAAGTCGTGGTGTGGCTTTGCTAGGATGGAATCAACAGAAAAATGTGAAGCT  
GTTATTGGTCATTTTAATGGAAAATTTATTAAGACACCACCAGGAGTTTCTGCCCCCACAGAACCTTTATTGTGT  
AAGTTTGCTGATGGAGGACAGAAAAAGAGACAGAACCCAAACAAATACATCCCTAATGGAAGACCATGGCATAGA  
GAAGGAGAGGTGAGACTTGCTGGAATGACACTTACTTACGACCCAACTACAGCTGCTATACAGAACGGATTTTAT  
CCTTACCATAACAGTATTGCTACAAACCGAATGATCACTCAAACCTTCTATTACACCTATATTGCATCTCCTGTA  
TCTGCCTACCAGGTGCAAAGTCCTTCGTGGATGCAACCTCAACCATATATTCTACAGCACCCCTGGTGCCGTGTTA  
ACTCCCTCAATGGAGCACACCATGTCACTACAGCCCGCATCAATGATCAGCCCTCTGGCCCAGCAGATGAGTCAT  
CTGTCACTAGGCAGCACCGGAACATACATGCCTGCAACGTGAGCTATGCAAGGAGCCTACTTGCCACAGTATGCA  
CATATGCAGACGACAGCGGTTCCCTGTTGAGGAGGCAAGTGGTCAACAGCAGGTGGCTGTGAGACGTCTAATGAC  
CATTCTCCATATACCTTTCAACCTAATAAGTAACTGTGAGATGTACAGAAAGGTGTTCTTACATGAAGAAGGGTG  
TGAAGGCTGAACAATCATGGATTTTTCTGATCAATTGTGCTTTAGGAAATTATTGACAGTTTTGCACAGGTTCTT  
GAAAACGTTATTTATAATGAAATCAACTAAAACATTTTTTGCTATAAGTTCTATAAGGTGCATAAAACCCCTAAA  
TTCATCTAGTAGCTGTTCCCCCGAACAGGTTTATTTTAGTAAAAAAAAAAAA

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**FIGURE 888**

MAPPSPTTSSNNSSSSSSNSGWDQLSKTNLYIRGLPPHTTDQDLVKLCQPYGKIVSTKAILDKTTNKCKGYGFV  
DFDSPAAAQKAVSALKASGVQAQMAKQQEQDPTNLYIISNLPLSMDEQELENMLKPFQVISTRILRDSSGTSRGV  
GFARMESTEKCEAVIGHFNGKFIKTPPGVSAPTEPLLCKFADGGQKKRQNPKNYIPNGRPWHREGEVRLAGMTLT  
YDPTTAAIQNGFYPSYSIATNRMITQTSITPYIASPVSAQVQSPSWMQPQPYILQHPGAVLTPSMEHTMSLQP  
ASMISPLAQQMSHLSLGSTGTYMPATSAMQGAYLPQYAHMQTTAVPVEEASGQQQVAVETSNHSPYTFQPNK

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**FIGURE 889**

AGACTTGGAACCCCAAAGTGTCCGCGACCCCTGCACGGCAGCTCCCTTCCAGCTTCATGGGCAAAGTGTGGAAC  
AGCAGATGTACCCTCAGTACGCCACCTACTATTACCCCCAGTATCTGCAAGCCAAGTTTGGAAGGCATTCGGGAA  
TACCAAGTGAAAAGGAAGAGTGAAGAACAGAAAAATGTTAGTGGGATGGCAAACACTGTGAACATTGCTGTTTCT  
AGTGGGCCAGAAAAATCAGTCTCTGGTCCCAGCCCCACCCCATGGCCCCCTCCAGTCCCAGCACCCACCAGCAGTAA  
TAACAACAGTAGCAGCAGTAGCAACTCAGGATGGGATCAGCTCAGCAAAACGAACCTCTATATCCGAGGACTGCC  
TCCCCACACCACCGACCAGGACCTGGTGAAGCTCTGTCAACCATATGGGAAAATAGTCTCCACAAAGGCAATTTT  
GGATAAGACAACGAACAAATGCAAAGGTTATGGTTTTGTGCGACTTTGACAGCCCTGCAGCAGCTCAAAAAGCTGT  
GTCTGCCCTGAAGGCCAGTGGGGTTCAAGCTCAAATGGCAAAGCAACAGGAACAAGATCCTACCAACCTCTACAT  
TTCTAATTTGCCACTCTCCATGGATGAGCAAGAACTAGAAAATATGCTCAAACCATTTGGACAAGTTATTTCTAC  
AAGGATACTACGTGATTCCAGTGGTACAAGTCGTGGTGTGGCTTTGCTAGGATGGAATCAACAGAAAAATGTGA  
AGCTGTTATTGGTCATTTTAATGGAAAATTTATTAAGACACCACCAGGAGTTTCTGCCCCACAGAACCCTTTATT  
GTGTAAGTTTGCTGATGGAGGACAGAAAAAGAGACAGAACCCAAACAAATACATCCCTAATGGAAGACCATGGCA  
TAGAGAAGGAGAGGTGAGACTTGCTGGAATGACACTTACTTACGACCCAACTACAGCTGCTATACAGAACGGATT  
TTATCCTTACCATAACAGTATTGCTACAAAACCGAATGATCACTCAAACCTTCTATTACACCCTATATTGCATCTCC  
TGATCTGCCTACCAGGTGGCAAAGGAAAACCAGAGAAAACAAGTATCGGGGCTCTGCTATCAAGGTGCAAAGTCC  
TTCGTGGATGCAACCTCAACCAATATATTCTACAGCACCCCTGGTGCCGTGTTAACTCCCTCAATGGAGCACACCAT  
GTCCTACAGCCCGCATCAATGATCAGCCCTCTGGCCCAGCAGATGAGTCATCTGTCACTAGGCAGCACCGGAAC  
ATACATGCCTGCAACGTGAGCTATGCAAGGAGCCTACTTGCCACAGTATGCACATATGCAGACGACAGCGGTTCC  
TGTTGAGGAGGCAAGTGGTCAACAGCAGGTGGCTGTGAGACGTCTAATGACCATTCTCCATATACCTTTCAACC  
TAATAAGTAACTGTGAGATGTACAGAAAGGTGTTCTTACATGAAGAAGGGTGTGAAGGCTGAACAATCATGGATT  
TTTCTGATCAATTGTGCTTTAGGAAATTATTGACAGTTTTGCACAGGTTCTTGAAAACGTTATTTATAATGAAAT  
CAACTAAAACATTTTTTGTCTATAAGTTCTATAAGGTGCATAAAACCCTTAAATTCATCTAGTAGCTGTCCCCCG  
AACAGGTTTATTTTAGTAAAAA

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**FIGURE 890**

MAPPSPSTTSSNNNSSSSSSNSGWDQLSKTNLYIRGLPPHTTDQDLVKLCQPYGKIVSTKAILDKTTNKCKGYGFV  
DFDSPAAAQKAVSALKASGVQAQMAKQQEQDPTNLYISNLPLSMDEQELENMLKPFQVISTRILRDSSGTSRGV  
GFARMESTEKCEAVIGHFNGKFIKTPPGVSAPTEPLLCKFADGGQKKRQNPKNYIPNGRPWHREGEVRLAGMTLT  
YDPTTAAIQNGFYPSYSIATNRMITQTSITPYIASPVSAIQVAKETRENKYRGSIAIKVQSPSWMQPQPYILQHP  
GAVLTSPMEHTMSLQPAISMISPLAQQMSHLSLGSTGTYPATSAMQAYLPQYAHMQTTAVPVEEASGQQQVAVE  
TSNDHSPYTFQPNK

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**FIGURE 891**

GGCTAATGTAACATACTCTACCACTTGGTCTGAAGCCCAGCAGTATCTGATGGATAATCCAACCTTTTGCAGAAGA  
TGAGGAGTTACAAAATATGGACAAAGAAGATGCATTAATTTGCTTTGAAGAACACATTCGGGGCTTTAGAAAAGGA  
GGAAGAAGAAGAAAAACAGAAGAGTTTGCTGAGAGAAAGGAGACGACAGCGAAAAAATAGGGGAATCTTCCAGAT  
ATTTTTAGATGAATTACATGAACATGGACAACCTGCATTCTATGTCATCTTGGATGGAATTGTATCCAACCTATTAG  
TTCTGATATTAGATTCACTAATATGCTTGGTCAGCCTGGATCAACTGCACTTGATCTTTTCAAGTTTTATGTTGA  
GGATCTTAAAGCACGTTATCATGACGAGAAGAAGATAATAAAAGACATTCTAAAGGATAAAAGGATTTGTAGTTGA  
AGTAAACACTACTTTTGAAGATTTTGTGGCGATAATCAGTTCAACTAAAAGATCAACTACATTAGATGCTGGAAA  
TATCAAATTTGGCTTTCAATATTACTAGAAAAGGCAGAAGCCCGTGAACGTGAAAGAGAAAAAGAAGAGGCTCGGA  
AGATGAAACGAAAAGAATCTGCATTTAAGAGTATGTTAAAACAAGCTGCTCCTCCGATAGAATTGGATGCTGTCT  
GGGAAGATATCCGTGAGAGATTTGTAAAAGAGCCAGCATTGAGGACATAACTCTAGAATCTGAAAGAAAACGAA  
TATTTAAAGATTTTATGCATGTGCTTGAGCATGAATGTCAGCATCATCATTCAAAGAACAAGAAACATTCTAAGA  
AATCTAAAAAACATCATAGGAAAACGTTCCCGCTCTCGATCGGGGTGAGATTGAGATGATGATGATAGCCATTCAA  
AGAAAAAAGACAGCGATCAGAGTCTCGTTCTGCTTCAGAACATTCTTCTAGTGCAGAGTCTGAGAGAAGTTATA  
AAAAGTCAAAAAAGCATAAGAAGAAAAGTAAGAAGAGGAGACATAAATCTGACTCTCCAGAATCCGATGCTGAGC  
GAGAGAAGGATAAAAAAGAAAAAGATCGGGAAAGTGA AAAAGACAGA ACTAGACAAAGATCAGAATCAAAACACA  
AATCGCCTAAGAAAAAGACTGGAAGGATTCTGGTAATTGGGATACTTCTGGCAGCGAACTGAGTGAAGGGGAAT  
TGGAAAAGCGCAGAAGAACCCCTTTTGGAGCAACTGGATGATGATCAATAAATTATAACCAAATATATGTTTACAGT  
ATGATTTAAAGTCTGATTGAGACCAGGGACTCTATTTTAAAGTTCAACTGAAATAACACTGGGTTTTAATTATATC  
ACAGGAAAAAAAAGTGCATTTAAGTATTGTTATCGTGGACTTTATAAAAGCAAAGGAAATTGAAAGTAACTTTT  
GATTCTGTATCAAGAATCATATTTTCATACAGTCATAACTGTCTTTCTGTGACCCTTTCACAGGGCACTGTAGGA  
TGGATTAAAGGTGGCAATTTACTGATAACTGCAGATGTCTCTACTTTGTTCTAAAATCTAAGTCATGAGGTGATT  
TGATTTACTTTTATAGAAGCTGGATTTTGAAGATCTAATGAAAAATTTTTTGATAATATAGTAGTACAAAAAAGC  
ACCAGCAACTGATAAAAATTGCTTTTTTGTGCGCTACCCA ACTGGTTAAAGCCAATGTGATCTTTTATGGTGAAA  
CTCCTAAGAAACAGGTGGTTTTGCTGGAACTTGGTAGACCCTTAATTATAGTGGTGCTAATGAGCACTACTGTA  
ATATAAGCCACCATTATTTTTTATCAAACATCTGAATACATTTTACAAAGGCTATTGTGAGGGCATTATTTTGA  
GCATCTATTTTGAGGTGATGTTTAAAAAACTTTAACATCAAATCAAATTGTAAATTAATTTAAATATATTGCCT  
TAAGGACCTACTAAAGAATGTGCCACCAGACTTTAAGTGATAGTTGCAATATCCTTGTCTAAAAAAAAAAAAAAAA  
GTTGACTTAAACATTTTCTTTAACAGTTGTCTTTTTTTTCTAAATTCAGTCTTTCTCTTGCTTTTTTTTCCCTGC  
TATTGAGGAAGTATTTTGCCTTCCCTACTCACTGAGAAGTATTGACTTCGTGGTACACATTCTAAAGCATTTCG  
ATTTGAATATTTTTGTACATTTTATCAATTATTAAACCTTCTCTTAGTG

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**FIGURE 892**

MLEISNWLSILLEKAEAREREREKEEEARKMKRKESAFKSMKQAAPPIELDAVWEDIRERFVKEPAFEDITLESE  
RKRIFKDFMHVLEHECQHHSKNKKHSHKSKKHHRKRSRSGSDSDDDSHSKKKRQRSESRASEHSSSAESE  
RSYKSKKHKKKSKKRRHKSDSPESDAEREKDKKEKDRESEKDRTRQRSESKHKSPKKKTGKDSGNWDTSGSELS  
EGELEKRRRTLLEQLDDQ

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**FIGURE 893**

CCAGCACGCGGCCGCTCTGGCCCAGGGAAGTCCCTGTCCTTACCTTCAGCAGGAGCCGGTTCCCTGTGTGTGTGT  
CCGCTCGCCCTCTGCTCCGTCCCTGCGGCTGCCCACTGCCCTCCTACGGTCCACCATGGCCCTGCTGCACTCCGGC  
CGCGTCTCCCCGGGATCGCCGCCGCTTCCACCCGGGCTCGCCGCCGCGGCTCTGCCAGAGCCAGCTCCTGG  
TGGACCCATGTGGAATGGGACCTCCAGATCCCATTTCTGGGAGTCACTGAAGCCTTTAAGAGGGACACCAATAGC  
AAAAAGATGAATCTGGGAGTTGGTGCCCTACCGGGATGATAACGGAAGCCTTACGTGCTGCCTAGCGTCCGCAAG  
GCAGAGGCCAGATTGCCGCAAAAAATTTGGACAAGGAATACCTGCCCATTTGGGGGACTGGCTGAATTTTGCAAG  
GCATCTGCAGAACTAGCCCTGGGTGAGAACAGCGAAGTCTTGAAGAGTGGCCGGTTTGTCACTGTGCAGACCATT  
TCTGGAACCTGGAGCCTTAAGGATCGGAGCCAGTTTTCTGCAAAGATTTTTTAAGTTCAGCCGAGATGTCTTTCTG  
CCCAAACCAACCTGGGGAAACCACACACCCATCTTCAGGGATGCTGGCATGCAGCTACAAGGTTATCGGTATTAT  
GACCCCAAGACTTTCGGTTTTTGACTTCACAGGCGCTGTGGAGGATATTTCAAAAATACCAGAGCAGAGTGTTCTT  
CTTCTGCATGCCTGCGCCACAATCCACGGGAGTGGACCCGCGTCCGGAACAGTGAAGGAAATAGCAACAGTG  
GTGAAGAAAAGGAATCTCTTTGCGTTCTTTGACATGGCCTACCAAGGCTTTGCCAGTGGTGATGGTGATAAGGAT  
GCCTGGGCTGTGCGCCACTTCATCGAACAGGGCATTAAATGTTTGTCTCTGCCAATCATATGCCAAGAACATGGGC  
TTATATGGTGAGCGTGTAGGAGCCTTCACTATGGTCTGCAAAGATGCGGATGAAGCCAAAAGGGTAGAGTCACAG  
TTGAAGATCTTGATCCGTCCCATGTATTCCAACCCTCCCTCAATGGGGCCCGGATTGCTGCTGCCATTCTGAAC  
ACCCAGATTTGCGAAAACAATGGCTGCAAGAAGTGAAAGGCATGGCTGACCGCATCATTGGCATGCGGACTCAA  
CTGGTCTCCAACCTCAAGAAGGAGGGTTCCACCCACAATTGGCAACACATCACCGACCAAATTGGCATGTTCTGT  
TTCACAGGGCTAAAGCCTGAACAGGTGGAGCGGCTGATCAAGGAGTTCTCCATCTACATGACAAAAGATGGCCGC  
ATCTCTGTGGCAGGGGTACCTCCAGCAACGTGGGCTACCTTGCCCATGCCATTACCAGGTACCAAGTAATGT  
CCCTGGTGCGAGGAAACAGAGACAACCTTTCTGTCTTCAGCCTCTGCTATTGAGAGCTTCACACAGACAATGAGA  
GAGGGTGGATGGTGGTGAGTGGATCATTTCTTTTCAGCCACAGTGTGTAACACTCAGCATTTGAATGTTTCTCAGA  
AAAGAACATGTAGTGACACAGGGCAGAGGCATCCATGGCTGGCGTCTGGAATATTAAACCAAACCTCTCCCCGGTC  
CTTTTTTCTCCAACTTTTCTCAAAGAGTTTACATGTGCAAGAAAGTCATCGCACCAAAAAACCTGTCAATTATGC  
CATTGCAATATTTCAGAAGCTTTAACTGAAGTGTGAGGTTCTCGTGAGAAACAGCACACGTTAGAGGCTTTGAG  
AGAAGGCCTAGTTCTGTCTATGAGTAGTCGGCCTCGTGTCTGTCTCTCCCATCTTGGAACAACCTTATCAACAGGCC  
GCACTGCAGAAATGATGTTTTATGAAAACCAATGAGGCTGCTGCCACTCCAGCAAGGGAAATAATGCAGTTTCCT  
GTCTTATTTAAGAAAAAGAGAAGGCTCTCTTTTCTCCCTTGTCATTGCCGTTCTTTTCTTACACGCAAAGATTT  
TTTAACTATTGCAGATTTTCATCCCATTTCTACTGCTTGATTGACCATCAACTCCATCCTATCGAGATTTATTTAA  
GAATGAAGAACATAATTTTCTGCTGATGCCGTACCTCACCTTTTTCAGCAAAGAATAGTGGAGAGTAGGAACT  
GTACTTTATCTCGGCATCCTCTTGAATGATAGTGCAAGTTTCTCCAGTTGGGATGTTGTCTCTGCCCCGGTTGGAC  
CTCCTCCCTTTGTTGAATGTGGTGTGCAGCCTCTCATCTCACACTGTGAGTCCAGCGGCGCAGGGTGGTACCAGG  
AAAGAGGATATTCTAGGCTTTGCGTGCTGCTAGCTGGGTTTCCAGGTTTACCCACTGGAAAGAACCACCATCTGCT  
CTAACCATGTAGACTTATTGCGGCCTGGTTTCTCTGTTACAATAAAATTACTGTAGACCC

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**FIGURE 894**

GAGTGACTCCACCGCCCGGAGCAGCGGTGCAGGACGCGCGTCTCCGCCGCCCGCGGTGACTTCTGCCTGCGCTCC  
TTCTCTGAACGCTCACTTCCGAGGAGACGCCGACGATGAAGACACCGTGGAAGGTTCTTCTGGGACTGCTGGGTG  
CTGCTGCGCTTGTCACCATCATCACCGTGCCCGTGGTCTGCTGAACAAAGGCACAGATGATGCTACAGCTGACA  
GTCGCAAAACTTACACTCTAACTGATTACTTAAAAATACTTATAGACTGAAGTTATACTCCTTAAGATGGATT  
CAGATCATGAATATCTCTACAAACAAGAAAATAATATCTTGGTATTCAATGCTGAATATGGAAAACAGCTCAGTTT  
TCTTGGAGAACAGTACATTTGATGAGTTTGGACATTCTATCAATGATTATTCAATATCTCCTGATGGGCAGTTTA  
TTCTCTTAGAATACAACCTACGTGAAGCAATGGAGGCATTCTACACAGCTTCATATGACATTTATGATTTAAATA  
AAAGGCAGCTGATTACAGAAGAGAGGATTCCAAACAACACACAGTGGGTCACATGGTCCAGTGGGTCCATAAAT  
TGGCATATGTTTGAACAATGACATTTATGTTAAATTTGAACCAATTTACCAAGTTACAGAATCACATGGACGG  
GGAAAGAAGATATAATATATAATGGAATAACTGACTGGGTTTATGAAGAGGAAGTCTTCAGTGCCTACTCTGCTC  
TGTGGTGGTCTCCAAACGGCACTTTTTTAGCATATGCCCAATTTAACGACACAGAAGTCCCACTTATTGAATACT  
CCTTCTACTCTGATGAGTCACTGCAGTACCCAAAGACTGTACGGGTTCCATATCCAAAGGCAGGAGCTGTGAATC  
CAACTGTAAAGTTCTTTGTTGTAAATACAGACTCTCTCAGCTCAGTCACCAATGCAACTTCCATACAAATCACTG  
CTCCTGCTTCTATGTTGATAGGGGATCACTACTTGTGTGATGTGACATGGGCAACACAAGAAAGATTTCTTTGC  
AGTGGCTCAGGAGGATTGAACTATTTCGGTCAATGGATATTTGTGACTATGATGAATCCAGTGGAGATGGAAT  
GCTTAGTGGCACGGCAACACATTGAAATGAGTACTACTGGCTGGGTTGGAAGATTTAGGCCTTCAGAACCTCATT  
TTACCCTTGATGGTAATAGCTTCTACAAGATCATCAGCAATGAAGAAGTTACAGACACATTTGCTATTTCCAAA  
TAGATAAAAAAGACTGCACATTTATTACAAAAGGCACCTGGGAAGTCATCGGGATAGAAGCTCTAACCACTGATT  
ATCTATACTACATTAGTAATGAATATAAAGGAATGCCAGGAGGAAGGAATCTTTATAAAATCCAACCTAGTGACT  
ATACAAAAGTGACATGCCTCAGTTGTGAGCTGAATCCGGAAGGTGTCAGTACTATTCTGTGTCATTGAGTAAAG  
AGGCGAAGTATTATCAGCTGAGATGTTCCGGTCTGGTCTGCCCTCTATACTCTACACAGCAGCGTGAATGATA  
AAGGGCTGAGAGTCTGGAAGACAATTCAGCTTTGGATAAAATGCTGCAGAATGTCCAGATGCCCTCCAAAAAAC  
TGGACTTCATTATTTTGAATGAAACAAAATTTTGGTATCAGATGATCTTGCCTCCTCATTTTGTATAAATCCAAGA  
AATATCCTCTACTATTAGATGTGTATGCAGGCCATGTAGTCAAAAAGCAGACACTGTCTTCAGACTGAACTGGG  
CCACTTACCTTGCAAGCACAGAAAACATTATAGTAGCTAGCTTTGATGGCAGAGGAAGTGGTTACCAAGGAGATA  
AGATCATGCATGCAATCAACAGAAGACTGGGAACATTTGAAGTTGAAGATCAAATTGAAGCAGCCAGACAATTTT  
CAAAAATGGGATTTGTGGACAACAAACGAATTGCAATTTGGGGCTGGTCAATGGAGGGTACGTAACCTCAATGG  
TCCTGGGATCGGGAAGTGGCGTGTTCAGTGTGGAATAGCCGTGGCGCCTGTATCCCGGTGGGAGTACTATGACT  
CAGTGTACACAGAAGCTTACATGGGTCTCCCAACTCCAGAAGACAACCTTGACCATTACAGAAATTCACAGTCA  
TGAGCAGAGCTGAAAATTTTAAACAAGTTGAGTACCTCCTTATTTCATGGAACAGCAGATGATAACGTTCACTTTC  
AGCAGTCAGCTCAGATCTCCAAAGCCCTGGTTCGATGTTGGAGTGGATTTCAGGCAATGTGGTATACTGATGAAG  
ACCATGGAATAGCTAGCAGCACAGCACACCAACATATATATACCCACATGAGCCACTTCATAAAACAATGTTTCT  
CTTTACCTTAGCACCTCAAATACCATGCCATTTAAAGCTTATTAAACTCATTTTTGTTTTCATTATCTCAAAA  
CTGCACTGTCAAGATGATGATGATCTTTAAATAACACACTCAAATCAAGAACTTAAGGTTACCTTTGTTCCCAA  
ATTTACATACCTATCATCTTAAGTAGGGACTTCTGTCTTCACAACAGATTATTACCTTACAGAAGTTTGAATTATC  
CGGTCCGGTTTTATTGTTTAAATCATTCTGTCATCAGCTGCTGAAACAACAAATAGGAATTGTTTTTATGGAGG  
CTTTGCATAGATTCCCTGAGCAGGATTTTAATCTTTTTCTAACTGGACTGGTTCAAATGTTGTTCTCTTTTAA  
AGGGATGGCAAGATGTGGGCAGTGTGCTAGGGCAGGGACAGGATAAGAGGGATTAGGGAGAGAAGATAGCA  
GGGCATGGCTGGGAACCCAAGTCCAAGCATACCAACACGAGCAGGCTACTGTCAGCTCCCCTCGGAGAAGAGCTG  
TTCACAGCCAGACTGGCACAGTTTTCTGAGAAAGACTATTCAAACAGTCTCAGGAAATCAAATATGCAAAGCACT  
GACTTCTAAGTAAACCACAGCAGTTGAAAGACTCCAAAGAAATGTAAGGGAACCTGCCAGCAACGCAGGCCCC  
CAGGTGCCAGTTATGGCTATAGGTGCTACAAAACACAGCAAGGGTGATGGGAAAGCATTGTAAATGTGCTTTTA  
AAAAAAAATACTGATGTTCTAGTGAAAGAGGCAGCTTGAACTGAGATGTGAACACATCAGCTTGCCCTGTAA  
AAGATGAAAATATTTGTATCACAAATCTTAACCTGAAGGAGTCTTGTCATCAATTTTCTATTTCATTTCTTTG  
AGTGTCTTAATTAAGAATATTTTAACTTCCTTGACTCATTTTAAAAAATGGAACATAAAATACAATGTTATG  
TATTATTATCCCATCTACATACTATGGAATTTCTCCAGTCATTTAATAAATGTGCCTTCATTTTTTC



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**FIGURE 895**

MKTPWKVLLGLLGAAALVTIITVPVLLNKGTDDATADSRKTYTLTDYLNKNTYRLKLYSLRWISDHEYLYKQENN  
ILVFNAEYGNSSVFLENSTFDEFGHSINDYSISPDGQFILLEYNVYKQWRHSYTASYDIYDLNKRQLITEERIPN  
NTQWVTWSPVGHKLAYVWNNDIYVKIEPNLPSYRITWTGKEDIYNGITDWVYEEVFSAAYSALWWSFNGTFLAY  
AQFNDTEVPLIEYSFYSDSLQYPKTVRVPYPKAGAVNPTVKFFVNTDSLSSVTNATSIQITAPASMLIGDHYL  
CDVTWATQERISLQWLRRIQNYSVMDICDYDESSGRWNCLVARQHIEMSTTGWVGRFRPSEPHTLDGNSFYKII  
SNEEGYRHICYFQIDKKDCTFITKGTWEVIGIEALTSYLYYISNEYKMPGGRNLYKIQLSDYTKVTCLSCELN  
PERCQYYSVSFSKEAKYYQLRCSGPGPLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPSKKLDFIILNETKFW  
YQMILPPHFDKSKKYPLLLDVYAGPCSQKADTVFRLNWATYLASTENIIVASFDGRGSGYQGDKIMHAINRRLGT  
FEVEDQIEAARQFSKMGFVDNKRIAIWGWSYGGYVTSMLVSGSGVFKCGIAVAPVSRWEYYDSVYTERYMGLPT  
PEDNLDHYRNSTVMSRAENFKQVEYLLIHGTADDNVHFQQAQISKALVDVGVDFOAMWYTDEDHGIASSTAHQH  
IYTHMSHFIKQCFSLP

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**FIGURE 896**

GT TTGAAATCGGAAAGTTGGCGGGGCTGCGGGAGCTGAGCCTAGAGTCCGGCTGTTGGCTAGAGTGGGCGCGGAT  
CTGGTGTGGGGAAGGCGGGGACTCAGGCCTGCCTGCGAAGCATTGTCCTACATAATGCTAGAGGACGAAGTGG  
CACTTTTCGATAAAAAGCATAAATGAATTTTGGAAATAAATTCAAAAGTACGGACACCTCCTGTCAGATGGCGGGAC  
TAAGAGATACCTACAAGGATTCCATCAAAGCATTTCAGAGAAAAGCTGTCTGTGAAATTAAAGGAAGAAGAACGAA  
TGGTTGAGATGTTTCTGGAATATCAAAATCAGATCAGCAGGCAAAATAAGCTCATTCAAGAAAAAAGGATAACT  
TGTTAAAATTGATTGCTGAAGTAAAAGGCAAAAAGCAGGAATTGGAAGTACTGACTGCAAATATCCAGGATCTTA  
AGGAAGAATATTCTAGGAAGAAGGAAACTATTTCTACTGCTAATAAAGCGAATGCAGAGAGGTTGAAAAGGCTGC  
AGAAATCTGCAGACTTGTATAAAGATCGACTTGGACTAGAAATTCGAAAAATTTATGGTGAGAAATTGCAGTTTA  
TTTTCACTAATATTGACCCTAAGAATCCTGAGAGCCCATTTATGTTTTCTTACATCTCAATGAAGCAAGGGACT  
ATGAAGTGTGAGATAGTGCCCCTCATCTTGAGGGCCTAGCAGAATTTCAAGAGAATGTAAGGAAGACCAACAATT  
TTTCAGCTTTTCTTGCCAATGTTGCGAAAGCTTTTACTGCCACGGTTTATAATTAAACATACAAATAGTGTATATA  
AAAACGGTTTATTTTCTTCTCTATTACATATCTTTTTTTTTCTTGTTTTATTATTACTATACTTTAAGTTTT  
AGGGTACATGTGCACAATGTGCAGGTTTGTTACATATGTATACATGTGCCATATTGGTGTGCTGCACCCATTAAAC  
TCGTCATTTCAATTAGGTATATCTCCTAATGCTATCCCTCCCCCTCCCCCAACCCACAACAGTCCCCGTTGTGTG  
ATGTTCCCTTCCCTGTGTCCATGTGTTCTCATTTGTTCAATTTCCACCTAGGAGTGAGAATATGTGGTGTGTTGGTT  
TTTTGTCCTTTCGATAGTTTGCTGAGAATGATGGTTTCCAGCTTCATCCATGTTTCTACAAAGGACATGAAGTCA  
TCCTTTTTTATGGCTGCATAGTATTCCATGGTGTATATGTGCCACATTTTCTTAATCCAGTCTATCATTGTTGGA  
CATTTGGGTTGGTTCCAAGTCTTTGCTATTGTGAATAGTGCCGAAATAAACATACGTGTGCATGTGTCTCCAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 897**

MVEDELALFDKSINEFWNKFKSTDTSCQMAGLRDITYKDSIKAFAEKLSVKLKEEERMVEMFLEYQNQISRQNKLI  
QEKKNLLKLIAEVKGKKQELEVLTANIQDLKEEYSRKKETISTANKANAERLKRLOKSADLYKDRLGLEIRKIY  
GEKLQFIFTNIDPKNPESPFMFSLHLNEARDYEVSDSAPHLEGLAEFQENVRKTNNFSAFLANVRKAFTATVYN

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**FIGURE 898**

AAGCACAGGCCACCACTCTGCCCTGGTCCACACAAGCTCCGGTAGCCCATGGAGCCCTGGCCTCTCCTCCTGCTC  
TTTAGCCTTTGCTCAGCTGGCCTCGTCTGGGCTCCGAACATGAGACCCGTCTGGTGGCAAAGCTATTTAAAGAC  
TACAGCAGCGTGGTGCGGCCAGTGGAAGACCACCGCCAGGTTCGTGGAGGTCACCGTGGGCCTGCAGCTGATACAG  
CTCATCAATGTGGATGAAGTAAATCAGATCGTGACAACCAATGTGCGTCTGAAACAGCAATGGGTGGATTACAAC  
CTAAAATGGAATCCAGATGACTATGGCGGTGTGAAAAAATTACATTCCCTTCAGAAAAGATCTGGCGCCCAGAC  
CTTGTTCTCTATAACAATGCAGATGGTGACTTTGCTATTGTCAAGTTCACCAAAGTGCTCCTGCAGTACACTGGC  
CACATCAGCTGGACACCTCCAGCCATCTTTAAAAGCTACTGTGAGATCATCGTCACCCACTTCCCTTTGATGAA  
CAGAACTGCAGCATGAAGCTGGGCACCTGGACCTACGACGGCTCTGTCTGGCCATCAACCCGGAAGCGACCAG  
CCAGACCTGAGCAACTTCATGGAGAGCGGGGAGTGGGTGATCAAGGAGTCCCGGGGCTGGAAGCACTCCGTGACC  
TATTCCTGCTGCCCCGACACCCCTACCTGGACATCACCTACCACTTCGTCAATGCAGCGCCTGCCCTCTACTTC  
ATCGTCAACGTCATCATCCCTGCCTGCTCTTCTCCTTCTTAACTGGCCTGGTATTCTACCTGCCACAGACTCA  
GGGAGAAGATGACTCTGAGCATCTCTGTCTTACTGTCTTTGACTGTGTTCTTCTGGTCATCGTGGAGCTGATC  
CCCTCCACGTCCAGTGCTGTGCCCTTGATTGGAATAACATGCTGTTTACCATGGTGTTCGTCAATGCCTCCATC  
ATCATCACTGTCATCGTCATCAACACACACCACCGCTCACCCAGCACCCATGTCATGCCCAACTGGGTGCGGAAG  
GTTTTTATCGACACTATCCCAAATATCATGTTTTTCTCCACAATGAAAAGACCATCCAGAGAAAAAGCAAGACAAA  
AAGATTTTTACAGAAGACATTGATATCTCTGACATTTCTGGAAAGCCAGGGCCTCCACCCATGGGCTTCCACTCT  
CCCCTGATCAAACACCCCGAGGTGAAAAGTGCCATCGAGGGCATCAAGTACATCGCAGAGACCATGAAGTCAGAC  
CAGGAGTCTAACAATGCGGCGGCAGAGTGGAAGTACGTTGCAATGGTGATGGACCACATACTCCTCGGAGTCTTC  
ATGCTTGTTTGCATCATCGGAACCTAGCCGTGTTTGCAGGTCGACTCATTGAATTAAATCAGCAAGGATGAGCA  
GAAAATGAGCTGAGCTTAGCTCTGCCCTGGAACCTACCAGAGCAGAGAAGGGCAGGAGAGGAAGATTTGTCTACT  
TGCTCCACTCGCACTTATCAAACGTGTTATATTCCATACTTATTATTGATGATAAGATTTACCTTTATGTAAGTT  
TATGGCCTTGAAGTGTTTTCATATTGCTTCTCCCTTTAGTTCTGCTGTCTCCCTGAAGAGTGAACCTCTTTAGT  
AAATGAACTAATCACT

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**FIGURE 899**

MEPWPLLLLSLCSAGLVLGSEHETRLVAKLFKDYSSVVRPVEDHRQVVEVTVGLQLIQLINVDEVNQIVTTNVR  
LKQQWVDYNLKWNPDDYGGVKKIHIPSEKIWRPDLVLYNNADGDFAIVKFTKVLLQYTGHITWTPPAIFKSYCEI  
IVTHFPFDEQNCSMKLGTWYDGSVVAINPESDQPDLSNFMESGEWVIKESRGWKHSVTYSCCPDTPYLDITYHF  
VMQRLPLYFIVNVIIPCLLFSFLTGLVFYLPDTSGEKMTLSISVLLSLTVFLLVIVELIPSTSSAVPLIGKYMFL  
TMVFVIASIIITVIVINTHHRSPSTHVMPNWRKVFIDTIPNIMFFSTMKRPSREKQDKKIFTEDIDISDISGKP  
GPPPMGFHSPLIKHPEVKS AIEGIKYIAETMKSDQESNNAAEWKYVAMVMDHILLGVFMLVCIIGTLAVFAGRL  
IELNQOG

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**FIGURE 900**

GTTTCGCAGCCGCCGCCGCCGCCGTCGCTCTCCAACGCCAGCGCCGCCCTCTCGCTCGCCGAGCTCCAGCCGAAG  
GAGAAGGGGGGTAAGTAAGGAGGTCTCTGTACCATGGCTCGTACAAAGCAGACTGCCCGCAAATCGACCGGTGGT  
AAAGCACCCAGGAAGCAACTGGCTACAAAAGCCGCTCGCAAGAGTGCGCCCTCTACTGGAGGGGTGAAGAAACCT  
CATCGTTACAGGCCTGGTACTGTGGCGCTCCGTGAAATTAGACGTTATCAGAAGTCCACTGAACCTTCTGATTTCGC  
AAACTTCCCTTCCAGCGTCTGGTGCGAGAAATTGCTCAGGACTTTAAAACAGATCTGCGCTTCCAGAGCGCAGCT  
ATCGGTGCTTTGCAGGAGGCAAGTGAGGCCTATCTGGTTGGCCTTTTTGAAGACACCAACCTGTGTGCTATCCAT  
GCCAAACGTGTAACAATTATGCCAAAAGACATCCAGCTAGCACGCCGCATACGTGGAGAACGTGCTTAAGAATCC  
ACTATGATGGGAAACATTTTCACTTCTCAAAAAAAAAAAAAAAAAAATTTCTCTTCTTCTGTTATTGGTAGTTCTGAAC  
GTTAGATATTTTTTTTCCATGGGGTCAAAAGGTACCTAAGTATATGATTGCGAGTGGAAAAATAGGGGACAGAAA  
TCAGGTATTGGCAGTTTTTCCATTTTCATTTGTGTGTGAATTTTTAATAAATGCGGAGACGTAAAGCATTAAT  
GCAAGTTAAAATGTTTCAGTGAACAAGTTTCAGCGGTTCAACTTTATAATAATTATAAATAAACCTGTAAATTT  
TTCTGGACAATGCCAGCATTTGGATTTTTTTTAAACAAGTAAATTTCTTATTGATGGCAACTAAATGGTGTGTTGT  
AGCATTTTTATCATACAGTAGATTCCATCCATTCACTATACTTTTCTAACTGAGTTGTCCTACATGCAAGTACAT  
GTTTTTAATGTTGTCTGTCTTCTGTGCTGTTCTGTAAAGTTTGCTATTAAAATACATTAAACTAT

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**FIGURE 901**

CGCCGAGCTCCAGCCGAAGGAGAAGGGGGGTAAGTAAGGAGGTCTCTGTACCATGGCTCGTACAAAGCAGACTGC  
CCGCAAATCGACCGGTGGTAAAGCACCCAGGAAGCAACTGGCTACAAAAGCCGCTCGCAAGAGTGCGCCCTCTAC  
TGGAGGGGTGAAGAAACCTCATCGTTACAGGCCTGGTACTGTGGCGCTCCGTGAAATTAGACGTTATCAGAAGTC  
CACTGAACTTCTGATTGCAAACTTCCCTTCCAGCGTCTGGTGCGAGAAATTGCTCAGGACTTTAAACAGATCT  
GCGCTTCCAGAGCGCAGCTATCGGTGCTTTGCAGGAGGCAAGTGAGGCCTATCTGGTTGGCCTTTTTGAAGACAC  
CAACCTGTGTGCTATCCATGCCAAACGTGTAACAATTATGCCAAAAGACATCCAGCTAGCACGCCGCATACGTGG  
AGAACGTGCTTAAGAATCCACTATGATGGGAAACATTTCAATTCTCTCCATGGGGTCAAAGGTACCTAAGTATAT  
GATTGCCGAGTGAAA

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**FIGURE 902**

MARTKQTARKSTGGKAPRKQLATKAARKSAPSTGGVKKPHRYRPGTVALREIRRYQKSTELLIRKLPFQRLVREI  
AQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKRVTIMPKDIQLARRIRGERA



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**FIGURE 903**

CAGCCGTTGAGGGGACGGGCCTGCGTTCTCTCCTCCTCCCGCCTCCAGCTGCCGGCAGGACCTTCTCTC  
GCTGCCGCTGGGACCCCGTGTCATCGCCAGGCCGAGCACGATGCCCCCTAAAAAGGGAGGTGATGGAATTAAAC  
CACCCCAATCATTGGAAGATTGGAACCTCACTGAAAATTGGTATTGTTGGATTGCCAAATGTTGGGAAATCTA  
CTTTCTTCAATGTGTTAACCAATAGTCAGGCTTCAGCAGAAAACCTCCCGTTCTGCACTATTGATCCTAATGAGA  
GCAGAGTACCTGTGCCAGATGAAAAGGTTTGACTTTCTTTGTCAATACCACAAACCAGCAAGCAAAATTCCTGCCT  
TTCTAAATGTGGTGGATATTGCTGGCCTTGTGAAAGGAGCTCACAATGGGCAGGGCCTGGGGAATGCTTTTTTAT  
CTCATATTAGTGCCTGTGATGGCATCTTTCATCTAACACGTGCTTTTGAAGATGATGATATCACGCACGTTGAAG  
GAAGTGTAGATCCTATTTCGAGATATAGAAATAATACATGAAGAGCTTCAGCTTAAAGATGAGGAAATGATTGGGC  
CCATTATAGATAAACTAGAAAAGGTGGCTGTGAGAGGAGGAGATAAAAACTAAACCTGAATATGATATAATGT  
GCAAAGTAAATCCTGGGTTATAGATCAAAAGAAACCTGTTTCGCTTCTATCATGATTGGAATGACAAAGAGATTG  
AAGTGTGGAATAAACACTTATTTTTGACTTCAAAACCAATGGTCTACTTGGTTAATCTTTCTGAAAAAGACTACA  
TTAGAAAGAAAAACAAATGGTTGATAAAATTAAGAGTGGGTGGACAAGTATGACCCAGGTGCTTTGGTCAATC  
CTTTTAGTGGGGCCTTGGAACCAAGTTGCAAGAATTGAGTGCTGAGGAGAGACAGAAGTATCTGGAAGCGAACA  
TGACACAAAGTGCTTTGCCAAAGATCATTAAAGGCTGGGTTTGACGACTCCAACCTAGAATACTTTTTCACTGCAG  
GCCCAGATGAAGTGCGTGTCATGGACCATCAGGAAAGGGACTAAGGCTCCTCAGGCTGCAGGAAAGATTACACAG  
ATTTTGAAAAGGGATTCAATTATGGCTGAAGTAATGAAATACGAAGATTTTAAAGAGGAAGGTTCTGAAAATGCAG  
TCAAGGCTGCTGGAAGTACAGACAACAAGGCAGAAATTATATTGTTGAAGATGGAGATATTATCTTCTTCAAAAT  
TTAACACACCTCAACAACCGAAGAAGAAATATAATTTAGTTATTGCTCAGATAAACATACAACCTTCCAAAAGGCA  
TCTGATTTTTAAAAAATTAAAAATTTCTGAAAACCAATGCGACAAATAAAGTTGGGGAGATGGGAATCTTTGACAA  
ACAAATTATTTTTATTTGTTTTAAAAATTAAAAACTGTGTACCCCCCCCCCCCCATGAAATGCAGGTTCACTAAA  
TGTGAACAGCTTTGCTTTTCACGTGATTAAGACCTACTCCAAATTGTAGAAGCTTTTCAGGAACCATATTACTC  
TCATGATACTTCATTAATCTCCATCATGTATGCCAAGCCTGACACATTTGACAGTGAGGACAATGTGGCTTGCTC  
CTTTTGAATCTACAGATAATGCATGTTTTACAGTACTCCAGATGTCTACACTCAATAAAACATTTGACAAAACC  
AAAAA?AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 904**

MPPKKGGDIKPPPIIGRFGTSLKIGIVGLPNVGKSTFFNVLTNSQASAENFPFCTIDPNESRVFPVDERFDFLC  
QYHKPASKIPAFNLVVDIAGLVKGAHNGQGLGNAFLSHISACDGIFHLTRAFEDDDITHVEGSVDFIRDIEIIHE  
ELQLKDEEMIGPIIDKLEKVAVRGGDKKLKPEYDIMCKVKSVIDQKKPVRFYHDWNDKEIEVLNKHFLFTSKPM  
VYLVNLSEKDYIRKKNKWLIKIKEWVDKYDPGALVIPFSGALELKLQELSAEERQKYLEANMTQSALPKIIKAGF  
AALQLEYFFTAGPDEVRAWTIRKGTKAPQAAGKIHTDFEKGFI MAEVMKYEDFKEEGSENAVKAAGKYRQQGRNY  
IVEDGDIIFFKFNTFPQPKKK

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**FIGURE 905**

CTGCCAGCCGCGCTGCTGCTGCTCCTCCTGCTGTGGGACCGCTGACCGCGGGCTGCTCCGCTCTCCCCGCTCCA  
AGCGCCGATCTGGGCACCCGCCACCAGCATGGACGCTCGCCGCGTGCCGCAGAAAGATCTCAGAGTAAAGAAGAA  
CTTAAAGAAATTCAGATATGTGAAGTTGATTTCCATGGAGACCTCGTCATCCTCTGATGACAGTTGTGACAGCTT  
TGCTTCTGATAATTTTGCAAAACAGAAACCTAAATTCAGGTCAGATATCAGTGAAGAACTGGCAAGTGTTTTTTA  
TGAGGACTCTGATAATGAATCTTTCTGCGGCTTTTCAGAAAGTGAGGTGCAAGATGTATTAGACCATTGTGGATT  
TTTACAGAAACCAAGGCCAGATGTCACTAACGAACTGGCCGGTATTTTTTCATGCCGACTCTGACGATGAATCATT  
TTGCGGTTTTCTCAGAGAGTGAGATACAAGATGGAATGAGGCTGCAGTCAGTTCGGGAAGGCTGTAGGACCCGCAG  
CCAGTGCAGGCACTCTGGACCTCTCAGGGTGGCGATGAAGTTTCCAGCGCGGAGTACCAGGGGAGCAACCAACAA  
AAAAGCAGAGTCCCGCCAGCCCTCAGAGAATTCGTGACTGATTCCAACCTCCGATTGAGAAGATGAAAGTGGAAT  
GAATTTTTTTGGAGAAAAGGGCTTTAAATATAAGCAAAACAAAGCAATGCTTGCAAAACTCATGTCTGAATTAGA  
AAGCTTCCCTGGCTCGTTCCGTGGAAGACATCCCTCCCAGGCTCCGACTCACAATCAAGGAGACCGCGAAGGCG  
TACATTCCCGGGTGTGCTTCCAGGAGAAACCTGAACGGAGAGCTCGTCTCTTACCAGGTCAAGGTCCCGGAT  
CCTCGGGTCCCTTGACGCTCTACCCATGGAGGAGGAGGAGGAAGAGGATAAGTACATGTTGGTGAGAAAGAGGAA  
GACCGTGATGGCTACATGAATGAAGATGACCTGCCCAGAAGCCGTCGCTCCAGATCATCCGTGACCCTTCCGCA  
TATAATTCGCCCAGTGGAAGAAATTACAGAGGAGGAGTTGGAGAACGTCTGCAGCAATTCTCGAGAGAAGATATA  
TAACCGTTCACTGGGCTCTACTTGTCAATGCCGTCAGAAGACTATTGATACCAAAACAACTGCAGAAACCC  
AGACTGCTGGGGCGTTTCGAGGCCAGTTCTGTGGCCCTGCCTTCGAAACCGTTATGGTGAAGAGGTCAGGGATGC  
TCTGCTGGATCCGAACCTGGCATTGCCCGCCTTGTCGAGGAATCTGCAACTGCAGTTTCTGCCGGCAGCGAGATGG  
ACGGTGTGCGACTGGGGTCCTTGTGATTTAGCCAAATATCATGGCTTTGGGAATGTGCATGCCTACTTGAAAAG  
CCTGAAACAGGAATTTGAAATGCAAGCATAATATCTGGAATTTTGCTGCCTGCCTTCTACTTCTCAAATCTTTC  
TTGTAAAAGTTTCCAATTTTTTCACTGAAACCTGAGTTAAAAATCTTGATGATCAGCCTGTTTCATAAGAACTC  
CAATCAAGTTAATCTTAGCAGACATGTGTTTCTGGAGCATCACAGAAGGTATATTGCTAGTTACACTTTGCCCTC  
CTGCAGTTTCTTCTCTGCTCCCAACCCCATCTCATAGCATCCCCCTCTATTTCCAATGCTCCTCTCCAACCGCT  
TAGTTTCTGAATTTCTTTTAAATTACAGTTTTATGAAAGCATATTTTATTTACTTGGTGTGAAATAGCCCTCAT  
AAAACCTAAGCACTTGGAACACAATAATAGTATTAATACTAAGTATCTATTGAATTTAGAGAAGAGCCTTCTA  
ACTTGTTTACACAAAAACGAGTATGATTTAGCATTCTACTAGTTGAAATTTTTAATAGAATCAAGGCACAAAAG  
TCTTAAAACCATGTGGAAAAATTAGGTAATTATTGCAGATTGATGTCTCTCAATCCCATGTATTGCGCTTATGTT  
ACAAGTTGTTGTACAGTTGAGACTTAATTTCTCCTAATTTCTTCTGCCCGAAGGGTAAGTGGTGGTCCAGCTT  
ACACAATCATAATTCAAAGTTGGTGGGCAATGTAATACTTAATTAATAATGATGGAAGAGCTATCTGGAGAT  
TATGAGTAAGCTGATTTGAATTTTCACTATAAACTTTAGTATAATTGTAGTTTGCAAAGTTTATTTAGTTTAC  
ATGTAAGGTATTGCAATAAATCTTGGACAATTTGTATGGAACTTGATATTAATAAACTAGTCTGTGGTTCTT  
TGCAGTTTCTTGTAATTTTATAAACCAGGCACAAGGTTCAAGTTTAGATTTTAAGCACTTTTATAACAATGATAA  
GTGCCTTTTTGGAGATGTAACTTTTAGCAGTTTGTAACTTGACATCTCTGCCAGTCTAGTTTCTGGGCAGGTTT  
CCTGTGTCAGTATTTCCCTCCTCTTTCATTAATCAAGGTATTTGGTAGAGGTGGAATCTAAGTGTGTTGTATGT  
CCAATTTACTTGATATGTAAACCATTTGCTGTGCTATTCAATGTTTGTATGCATAATTGGACCTTGAATCGATAAG  
TGTAATAACAGCTTTTGATCTGTAATGCTTTTATACAAAAGTTTATTTAATAATAAAATGTTTGTCT

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**FIGURE 906**

MDARRVPQKDLRVKKNLKKFRYVKLISMETSSSSDDSCDSFASDNFANTKPKFRSDISEELASVFYEDSDNESFC  
GFSESEVQDVLDHCGFLQKPRPDVTNELAGIFHADSDDSEFCGFSESEIQDGMRLQSVREGCRTRSQCRHSGPLR  
VAMKFPARSTRGATNKKAESRQPSSENSVTDSNSDSEDESGMNFLEKRALNIKQNKAMLAKLMSELESFPGSFRGR  
HPLPGSDSQSRRPRRRTFFPGVASRRNPERRARPLTRSRSRILGSLDALPMEEEEEDKYMLVRKRKTVDGYMNED  
DLPRSRRSRSSVTLPHIIRPVEEITEEELENVCSNSREKIYNRSLGSTCHQCRQKTIDTKTNCRNPDWGVRGQF  
CGPCLRNRYGEEVRDALLDPNWHCPPCRGICNCSEFCRQRDGRCATGVLVYLAKYHGFGNVHAYLSLQEFEMQA

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**FIGURE 907**

GCAAGATGGCAGAAGTAGAGCAGAAGAAGAAGCGGACCTTCCGCAAGTTCACCTACCGCGGCGTGGACCTGGACC  
AGCTGCTGGACATGTCCTACGAGCAGCTGGAGCAGCCGATGCAGCTGTACAGTGC GCGCCAGCGGCGGCGGCTGA  
ACCGGGGCCTGCGGCGGAAGCAGCACTCCCTGCTGAAGCGCCTGCGCAAGGCCAAGAAGGAGGCGCCGCCCATGG  
AGAAGCAGGAAGTGGTGAAGACGCACCTGCGGGACATGATCATCCTACCCGAGATGGTGGGCAGCATGGTGGGCG  
TCTACAACGGCAAGACCTTCACCTACAAGCCCGTAAAGCACGGCCGGCCCGGCATCGGGGCCACCCACTCCTCCC  
GCTTCATCCCTCTCAAGTAATGGCTCAGCTAATAAAGGCGCACATGACTCC

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**FIGURE 908**

MAEVEQKKKRTFRKFTYRGVDLDQLLDMSYEQLEQPMQLYSARQRRRLNRGLRRKQHSLLKRLRKAKKEAPPMEK  
QEVVKTHLRDMIILPEMVGSMVGVYNGKTFTYKPVKHGRPGIGATHSSRFIPLK

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**FIGURE 909**

GCTGAAATTAAAAGTACTGAGCTTACCAAGTGTTGATAAGGATGTAGAGGAACTGGAACTTTCATACACTGCTGG  
TGGGAATATAAAATGGTATAACCATTTTGGGAATACAACCTGGCAGTTTATTTGTTTGTGTTAGGTTGTTTTACTC  
ACCACTATGCTAACGAGGAACTTGGCAGTTTCTTTAAAAGATAAACATATATCTCTGGTCCGTGCCTCCAAGATG  
ACAAAGAAAAAGAAGGAACAACGGTCATGCCAAAAGGGCCGCGGCCACGTGCATCCTATTCGCTGCACTAACTGT  
ACCCGATGCGTGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTGAAACGTAGTGGAGGCCGCAGCAGTCAGG  
GACATTTCTGAAGTGAGCGTCTTCAATGCCTATGTGCTTCCCAAGCTGTATGTGAAGCTATATTACTGTGTGAGT  
TGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCACAAAGACCGAACACCCCCACCCTGATTT  
AGACCTGTGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTAAGGAGCTGAGTTCTTAAAGACTGAAGACAGA  
CTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTT

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**FIGURE 910**

CTTTTATGTTAGATGAGGAAGGGGATACCCAAACAGAGGAAACCCGGCCTTCAGAAACAAAAGAAGTGGAGCCAG  
AGCCAACTGAGGACAAAGATTTGGAAGCTGATGAAGAGGACACTAGGAAAAAAGATGCTTCTGATGATCTAGATG  
ACTTGAACTTCTTTAATCAAAAGAAAAAGAAGAAAAAACTAAAAAGATATTTGATATTGATGAAGCTGAAGAAG  
GTGTAAAGGATCTTAAGATTGAAAGTGATGTTCAAGAACCAACTGAACCAGAGGATGACCTTGACATTATGCTTG  
GCAATAAAAAGAAGAAAAAGAAGTGTAAAGTTCCAGATGAGGATGAAGCTCTAGAAGATGAAGACAACAAAA  
AAGATGATGGTATCTCATTCAAGTAATCAGACAGGCCCTGCTTGGGCAGGCTCAGAAAGAGACTACACATACGAGG  
AGCTGCTGAATCGAGTGTTCAACATCATGAGGGAAAAGAATCCAGATATGGTTGCTGGGGAGAAAAGGAAATTTG  
TCATGAAACCTCCACAAGTCGTCGAGTAGGAACCAAGAAAACCTCTTTTGTCAACTTTACAGATATCTGTAAAC  
TTGGTTCTATAGATGGTAATAACCAACTTGTAATCAAAGGAAGATTCCAACAGAAACAGATAGAAAATGTCTTGA  
GAAGATATATCAAGGAGTATGTCACCTTGTCACACATGCCGATCACCGGACACAATCCTGCAGAAGGACATGCCGAC  
TCTATTTCTACAGTGCGAACTTGTCATTCTAGATGTTCTGTTGCCATTATCAAATTTGGCTTCCAGGCTGTCA  
TGGGCAAGCGAGCACAGCTCCGTGCCAAAGCTAACTAATTTGCTAATCACTGATTTTGCAAAGCTTGTTGTGGAG  
ATGTGGCTGGACAGGTTTGCCATCAGAGTGGATATACCATTTGATTAAAAACAAGATAAAAAAGCTGCCAAGATT  
TTTGGCGAGTGGTTGGTTGGTCTGAAGTCCTTGCAAGACGCTGATGCTCAAGCTGTTGACATACTCATTGCCTAC  
TTTAACACCTGTCAGAGAAACGTGATATGGGGTAAGGAGGTGCTTTTTTAAAATAGTTCATAGACTTCTGTAAAA  
TGCAAGATAAATTAAAGTTATTATAACAGTGA



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**FIGURE 911**

GGTGGGAGAGGTATCGGCAGGGGCAGCGCTGCCGCCGGGGCCTGGGGCTGACCCGTCTGACTTCCCGTCCGTGCC  
GAGCCCACTCGAGCCGCAGCCATGTCTGGGGACGAGATGATTTTTGATCCTACTATGAGCAAGAAGAAAAAGAAG  
AAGAAGAAGCCTTTTATGTTAGATGAGGAAGGGGATACCCAAACAGAGGAAACCCGGCCTTCAGAAACAAAAGAA  
GTGGAGCCAGAGCCAAC TGAGGACAAAAGATTTGGAAGCTGATGAAGAGGACACTAGGAAAAAGATGCTTCTGAT  
GATCTAGATGACTTGAACTTCTTTAATCAAAAGAAAAAGAAGAAAAAACTAAAAAGATATTTGATATTGATGAA  
GCTGAAGAAGGTGTAAAGGATCTTAAGATTGAAAGTGATGTTCAAGAACCAACTGAACCAGAGGATGACCTTGAC  
ATTATGCTTGGCAATAAAAAAGAAGAAAAAGAAGATGTTAAGTTCCAGATGAGGATGAAGCTCTAGAAGATGAA  
GACAACAAAAAGATGATGGTATCTCATT CAGTAATCAGACAGGCCCTGCTTGGGCAGGCTCAGAAAGAGACTAC  
ACATACGAGGAGCTGCTGAATCGAGTGTTCAACATCATGAGGGAAAAGAATCCAGATATGGTTGCTGGGGAGAAA  
AGGAAATTTGTCATGAAACCTCCACAAGTCGTCCGAGTAGGAACCAAGAAAACCTCTTTTGTCAACTTTACAGAT  
ATCTGTAAACTATTACATCGTCAACCCAAACATCTCCTTGCATTTTTATTGGCTGAATTGGGTACAAGTGGTTCT  
ATAGATGGTAATAACCAACTTGTAATCAAAGGAAGATTCCAACAGAAACAGATAGAAAATGCTTGGAGAAGATAT  
ATCAAGGAGTATGTCACTTGTCACACATGCCGATCACCGGACACAATCCTGCAGAAGGACATGCGACTCTATTTT  
CTACAGTGCAGAACTTGTCATTCTAGATGTTCTGTTGCCATTATCAAAATTGGCTTCCAGGCTGTCATGGGCAAG  
CGAGCACAGCTCCGTGCCAAAGCTAACTAATTTGCTAATCACTGATTTTGCAAAGCTTGTTGTGGAGATGTGGCT  
GGACAGGTTTGCCATCAGAGTGGATATACCATTTGATTAAAAACAAGATAAAAAAGCTGCCAAGATTTTTGGCGA  
GTGGTTGGTTGGTCTGAAGTCCTTGCAAGACGCTGATGCTCAAGCTGTTGACATACTCATTGCCTACTTTAACAC  
CTGTCAGAGAAACGTGATATGGGGTAAGGAGGTGCTTTTTTAAAATAGTTCATAGACTTCTGTAAAATGCAAGAT  
AAATTAAAGTTATTATAACAGTGA

**FIGURE 912**

CGAGTTTGAAGAGGAGGAGTCCGGTCTCAAAATGGAGGTAAACCGCCGCCGGTTCGCCCCAGCCCGACTCCGGC  
CGTCGCCGTCGCCCGGGGGGAGGAGGGCCATGATCCAAAGGAACCAGAGCAGTTGAGAAAACGTGTTATTGGT  
GGTCTGAGCTTTGAAACTACAGATGATAGTTTACGAGAACATTTTGAGAAATGGGGCACACTCACAGATTGTGTG  
GTAATGAGAGACCCCCAAACAAAACGTTCCAGGGGCTTTGGTTTTGTGACTTATTCTTGTGTTGAAGAGGTGGAT  
GCAGCAATGTGTGCTCGACCACACAAGGTTGATGGGCGTGTAGTGGAAACCAAAGAGAGCTGTTTCTAGAGAGGAT  
TCTGTAAAGCCTGGTGCCCATCTAAACAGTGAAGAAAATTTTGTGGTGGTATTAAAGAAGATACAGAAGAATAT  
AATTTGAGAGACTACTTTGAAAAGTATGGCAAGATTGAAACCATAGAAGTTATGGAAGACAGGCAGAGTGGAAAA  
AAGAGAGGATTGTCTTTTGTAACTTTTGATGATCATGATACAGTTGATAAAAATTGTTGTTTCAGAAATACCACACT  
ATTAATGGGCATAATTGTGAAGTGAAAAAGGCCCTTTCTAAACAAGAGATGCAGTCTGCTGGATCACAGAGAGGT  
CGTGGAGGTGGATCTGGCAATTTTATGGGTCGCGGAGGGAACTTTGGAGGTGGTGGAGGTAATTTTGGCCGTGGT  
GGAAACTTTGGTGGAAAGAGGTAGGCTATGGTGGTGGAGGTGGTGGCAGCAGAGGTAGTTATGGAGGAGGTGATGG  
TGGATATAATGGATTGGAGGTGATGGTGGCAACTATGGCGGTGGTCCTGGTTATAGTAGTAGAGGGGGCTATGG  
TGGTGGTGGACCAGGATATGGAACCAAGGTGGTGGATATGGTGGAGGTGGAGGATATGATGGTTACAATGAAGG  
AGGAAATTTTGGCGGTGGTAACTATGGTGGTGGTGGGAACATAATGATTTTGGAAATTATAGTGGACAACAGCA  
ATCAAATTATGGACCCATGAAAGGGGGCAGTTTTTGGTGGGAAGAAGCTCGGGCAGTCCCTATGGTGGTGGTTATGG  
ATCTGGTGGTGGAAAGTGGTGGATATGGTAGCAGAAGGTTCTAAAAACAGCAGAAAAGGGCTACAGTTCTTAGCAG  
GAGAGAGAGCGAGGAGTTGTCAGGAAAGCTGCAGGTTACTTTGAGACAGTCGTCCCAAATGCATTAGAGGAACTG  
TAAAAATCTGCCACAGAAGGAACGATGATCCATAGTCAGAAAAGTTACTGCAGCTTAAACAGGAAAACCTTCTTG  
TTCAGGACTGTCATAGCCACAGTTTGCAAAAAGTGCAGCTATTGATTAATGCAATGTAGTGTCAATTAGATGTAC  
ATTCTGAGGTCTTTTATCTGTTGTAGCTTTGTCTTTTTCTTTTTCTTTTCATTACATCAGGTATATTGCCCTGT  
AAATTGTGGTAGTGGTACCAGGAATAAAAAATTAAGGAATTTTAACTTTTCAATATTTGTGTAGTTCAGTTTTT  
CTACATTTTAGTACAGAACTTTAAACAAAATGCAGTTTCGAAGGTGTTTCCTTGTGAGTTAACAAGTAAAGAAGA  
TCATTGTTAATTACTATTTTGTATGAATTTTGCTAAAGTTAACTGTAAAGAAACACCTGCTGACTTGCAGTTTAA  
GGGGAATCTATTCTCCCCATTTCCAAACCATGATATGAATGGGCGCTGACATGTGGAGAGAATAGATAATTTGTG  
TGTTTGCAATGTGTGTTTTAGATAAATAGGATTGGGTATTTAAATTAGCATTTGTGAATTTAATAGCATTAAAGAT  
TACCTTCAAATGAAAAAAAATCTCAAAAATTTCTATTTGGTTTTTGTGCATTTCTTTTAAATGTAATCATATGA  
TTTTAGTGTGTTAGACTTGCTGAGTCCTAGCTGTGTTTAGAACATCTCTATTCTACATTTACCTTGGTCAAATTT  
GAAGTCTGCTGCCATAGG

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**FIGURE 913**

MEGHDPKEREQLRKPFIGGLSFETDDGLREHFEEKWVTLTDCVVMRDPQTKCSRGFGFVTYSYIEEVDAAMCAPP  
HKVDGCVVEPKRAVSREDFVKPGAHLTVKKIFVGGIKIQKNII

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**FIGURE 914**

CTTCATCCTGCGACTAGCACCGCGTCCGGCAGCGCCTGCCCTACACTCGCCCGTGCCATGGCCTCCGTCTCCAAG  
CTCGCCTGCATCTACTCGGCCCTCATTCTGCACGACGATGAGGTGACAGTCACGGAGGATAAGATCAATGCCCTC  
ATTAAAGCAGCCGGTGTAATGTTGAACCTTTTTGGCCTGGCTTGTTTGCAAAGGCCCTGGCCAACGTCAACATT  
GGGAGCCTCATCTGCAATGTAGGGGCTGGTGGACCTGCTCCAGCTGAGGAGAAGAAAGTGGAAGCAAAGAAAGAA  
GAATCCAAGGAGTCTGATGATGACATGGGCCTTGGTCTTTTTGACTAAACCTCTTTTATAACGTGTTCAATAAAA  
AGCTGAACTT

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**FIGURE 915**

MASVSKLACIYSALILHDDEVTVTEDKINALIKAAGVNVEPFWPGLFAKALANVNIGSLICNVGAGGPAPAEKK  
VEAKKEESKESDDDMGLGLFD

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**FIGURE 916**

ACGGGGCCTGGGCGGSAGGGGCGGTGGCTGGAGCTCGGTAAAGCTCGTGGGACCCCATTTGGGGGAATTTGATCCA  
AGGAAGCGGTGATTGCCGGGGGAGGAGAAGCTCCCAGATCCTTGTGTCCACTTGCAGCGGGGGAGGCGGAGACGC  
GGAGCGGGCCTTTTGGCGTCCACTGCGCGGCTGCACCCTGCCCCATCCTGCCGGGATCATGGTCTGCGGCAGCCC  
GGGAGGGATGCTGCTGCTGCGGGCCGGGCTGCTTGCCCTGGCTGCTCTCTGCCTGCTCCGGGTGCCCGGGGCTCG  
GGCTGCAGCCTGTGAGCCCGTCCGCATCCCCCTGTGCAAGTCCCTGCCCTGGAACATGACTAAGATGCCCAACCA  
CCTGCACCACAGCACTCAGGCCAACGCCATCCTGGCCATCGAGCAGTTCGAAGGTCTGCTGGGCACCCACTGCAG  
CCCCGATCTGCTCTTCTTCTCTGTGCCATGTACGCGCCCATCTGCACCATTGACTTCCAGCACGAGCCCATCAA  
CCCCTGTAAGTCTGTGTGCGAGCGGGCCCGGCAGGGCTGTGAGCCCATACTCATCAAGTACCGCCACTCGTGGCC  
GGAGAACCCTGGCCTGCGAGGAGCTGCCAGTGTACGACAGGGGCGTGTGCATCTCTCCCGAGGCCATCGTTACTGC  
GGACGGAGCTGATTTTCCTATGGATTCTAGTAACGGAAACTGTAGAGGGGCAAGCAGTGAACGCTGTAAATGTAA  
GCCTATTAGAGCTACACAGAAGACCTATTTCCGGAACAATTACAACCTATGTCATTCTGGGCTAAAGTTAAAGAGAT  
AAAGACTAAGTGCCATGATGTGACTGCAGTAGTGGAGGTGAAGGAGATTCTAAAGTCCTCTCTGGTAAACATTCC  
ACGGGACACTGTCAACCTCTATACCAGCTCTGGCTGCCTCTGCCCTCCACTTAATGTTAATGAGGAATATATCAT  
CATGGGCTATGAAGATGAGGAACGTTCCAGATTACTCTTGGTGGAAGGCTCTATAGCTGAGAAGTGAAGGATCG  
ACTCGGTAAAAAAGTTAAGCGCTGGGATATGAAGCTTCGTCACTCTTGACTCAGTAAAAGTGATTCTAGCAATAG  
TGATTCCACTCAGAGTCAGAAGTCTGGCAGGAACCTCGAACCCCGGCAAGCACGCAACTTAAATCCCGAAATACAA  
AAAGTAACACAGTGGACTTCCTATTAAGACTTACTTGCAATTGCTGGACTAGCAAAGGAAAATTGCACTATTGCAC  
ATCATATTCTATTGTTTACTATAAAAATCATGTGATAACTGATTATTACTTCTGTTTCTCTTTTGGTTTCTGCTT  
CTCTCTTCTCTCAACCCCTTTGTAATGGTTTGGGGGAGACTCTTAAGTATATTGTGAGTTTTCTATTTCACTAA  
TCATGAGAAAACTGTTCTTTTGCAATAATAATAAATTAAACATGCTGTTA

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**FIGURE 917**

MVCGSPGGMLLLRAGLLALAALCLLRVPGARAAACEPVRIPLCKSLPWNMTKMPNHLHHSTQANAILAIEQFEG  
LGTHCSPDLLFFLCAMYAPICTIDFQHEPINPCKSVCERARQGCEPILIKYRHSWPENLACEELPVYDRGVCISP  
EAIVTADGADFPMDSSNGNCRGASSERCKCKPIRATQKTYFRNNYNYVIRAKVKEIKTKCHDVTAVVEVKEILKS  
SLVNIPRDTVNLYTSSGCLCPPLNVNEEYIIMGYEDEERSRLLLVEGSIAEKWKDRLGKKVKRWDMLRHLGLSK  
SDSSNSDSTQSQKSGRNSNPRQARN

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**FIGURE 918**

ATGTCCATCAGGACGACCCAGAAGTCCTACAGGGTGTCCACTTCTGGCCCCCGGGCCTTCAGCAGCCATTTCTAC  
ACAAGTGGGCCTGGTGCCTCCATCAGCTCCTCGAGCTTCTCCCAAGTGGGCAGCAGCAGCTTCCGGGGTGGCCTG  
GGAGGAGGCTACGGTGGGGCCAGTGGCATGGGAGGCATCACCACCGTCACTGTCAACCAGAGCCTGCTGAGCCCC  
CTTAACCTGGAGGTGGACCCACACATCCAGGCAGTGCACACTCAGAAGAAGGAGCAGATCAAGACCCTCAACACT  
AAGTTTGGCACCTTCATATACAAGAGTTACATCAACAACCTTAGGCAGCAGCTGGAGACTCTGGGCCAGGAAAAG  
CTGAAGCTGGAGGCGGAGCTTGGCAACATGCAGGGGCTGGTGGAGGACTTCAAGAACAAGTATGAGGATGAGATC  
AATAAGCGTACAGAGATGGAGAATGAATTTGTCCTCATCAAGAAGGATGTGGATGAAGCTTACCTGAACAAGGTA  
GAGCTGGAGTCTCGCCTGGAAGGGCTGACTGACGAAATCAACTTCCTCAGGCAGCTGTATGAAGAGGATATCCCG  
GAGCTGCAGTCCCAGATCTCAGACACGTCTGTGGTGTGCCCATGGACAACAGCCACTCCCTGGACATGGACAGC  
ATCATCAATGAGGTCAAGCGCAGTACGAGATCACCAACCGCAGCCAGCTGGCTCCAGGCAGAGATTGAGGGTCTC  
AAAGGCCAGAGGGCTTCCCTGGAGGCCGCCATCGCAGATGCGGAGCAGCGCGGGGAGTTGGCCGTTAAGGATGCC  
AGCGCCAAGCTGTCTGAGCTGGAGGCCGCCCTGCAGCAAACCAAGCAGGACGTGGAGCTGATGAACGACAAGCTG  
GCCCTGGACATTGAGATCGCCACCTACAGGCAGCTGCTGGAGGGCGAGGAGAGCTGGCTGGAGTCTGGGATGCAG  
AGCATGAGTATCCATACAAAGACCATCAGCAGCTATGCAGGTGGTCTGAGCTCGGCCTATGGGGGCCTCACAAGC  
CCCGGCCTCAGCTGTGGACTGGGCTCCAGCTTTGGCTCTGGCGCGGGCTCCAGTTCCTTCAGCTGCATCAGCTAC  
ACCAGGGCCGTGGTTGTGAAGAAGATTGAGACCCGTGATGGGACGCTGGTGTGAGATTCTCTGACGTCTGCCC  
AAGTGA



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**FIGURE 919**

MSIRTTQKSYRVSTSGPRAFSSHFYTSQPGASISSSSFQVGSSSFRGGLGGGYGGASGMGGITTVTVNQSLLSP  
LNLEVDPHIQAVHTQKKEQIKTLNTKFATFIYKSYINNLRQQLETLGQEKLEAELGNMQGLVEDFKNKYEDEI  
NKRTEMENEFVLIKKDVDEAYLNKVELESRLLEGLTDEINFLRQLYEEDIPELQSQISDTSVVLPMDNSHSLDMS  
IINEVKRSTRSPTAASWLQAEIEGLKGQRASLEAAIADAEQRGELAVKDASAKLSELEAALQQTQDVELMNDKL  
ALDIEIATYRQLLEGEESWLESGMQSMSIHTKTISSYAGGLSSAYGGLTSPGLSCGLGSSFGSGAGSSSFSCISY  
TRAVVVKKIETRDGTLVSEFSDVLPK

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**FIGURE 920**

ACGCAACCCCATAGGTAGCACGCCGTTACCCGTGGGGAGCGTTTCCGCCATTTTTGAAAATTAATTGGGAAGGT  
ACTGGTTTTAAGTGTAGTTGCCGACGCAATGGCAGCCTTTGCAGTGGAACCTCAGGGGCCCCGCGTTAGGATCTGA  
ACCAATGATGCTGGGTTCAACCCACATCTCCAAAGCCAGGAGTTAATGCCCAGTTCTTACCTGGATTTTTAATGGG  
GGATTTGCCAGCTCCGGTGACTCCACAACCTCGATCAATTAGTGGCCCTTCAGTAGGAGTAATGGAAATGAGATC  
ACCTTTACTTGCAGGTGGGTCAACCAACCAACAGTTGTACCAGCTCATAAAGATAAAAAGTGGCGCTCCACCAGT  
TAGAAGTATATATGATGACATTTCTAGCCCAGGACTTGGATCAACACCTTTAACTTCAAGAAGACAGCCAAACAT  
TTCAGTAATGCAGAGTCCCTCTTGTGGAGTTACATCTACTCCTGGAACAGGGCAAAGTATGTTTAGTCCAGCAAG  
TATCGGTGAGCCACGAAAGACGACATTATCTCCTGCCAGTTGGATCCTTTTTTATACTCAAGGAGATTCTTTGAC  
TTCAGAAGATCACCTCGATGACTCTTGGGTGACTGTATTTGGGTTTCTCAAGCATCTGCTTCTACATATTACT  
ACAATTTGCACAGTATGGGAATATCTTAAAACATGTGATGTCTAATACAGGAAATTGGATGCATATTCGTTATCA  
ATCTAAACTGCAGGCTCGGAAAGCCTTAAGCAAAGATGGGAGGATTTTTGGAGAATCCATCATGATTGGTGTAAA  
ACCATGTATTGACAAAAGTGTTATGGAAAGCAGTGACAGATGTGCTTTATCATCTCCATCTTTAGCCTTTACACC  
ACCAATCAAAACTCTAGGTACACCAACACAACCTGGAAGTACTCCTAGGATTTCTACCATGAGACCTCTTGCTAC  
AGCATACAAAGCCTCTACTAGTGATTATCAGGTTATTTCTGACAGACAAACGCCAAAAAAGATGAAAGTCTTGT  
ATCCAAAGCAATGGAGTACATGTTTGGCTGGTAGTAGAACACCAAGAAGGAGGTTGCTACACTAAAACAGAGTTA  
GCAGAGTGCTGCTGGTTCCCTTCGGTTAGTTATATAACTGTTCCCTGCAGTATTGGATAGCTATCTCATACTTCTTT  
TAGAAAGAAGCCTTTTTTCATTAAGGATACAACCTATTTGTAGCTCGCACTTTAAAAGATGCTTGAGATACATTTT  
AAAGAAAACATAAAATCCCTGTAAATAGGATTTTGTGCTTTCTGTAACAGTGCATGCTTCAGCACAGAAAACCTCA  
GCATTGATTATTGTAAATTAAATAACTGAAATTGTGGTGAGACGTCATAGTCTTCATGAGAACGTGGGGGTGAAT  
TTCATGAAGGGGAACATAGTTATTTCTACCGACACAAATATTATAATTAGCAATTTGAATTATGGTCTTTTAAT  
TTAGATAGTATTTAATATTTTAATTATCCTTGTGTTGTATATGTCCTGTACAGAGTGTCTCTTGGTGTATTCTA  
AAACGAGCATTCTTTTAAAAAACCTAAAGTTTCTTGATAATAACATTGTCAATGAT

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**FIGURE 921A**

GGCTGAGTTTTATGACGGGCCCCGGTGCTGAAGGGCAGGGAACAACCTTGATGGTGCTACTTTGAACTGCTTTTCTT  
TTCTCCTTTTTTGACAAAAGAGTCTCATGTCTGATATTTAGACATGATGAGCTTTGTGCAAAAGGGGAGCTGGCTA  
CTTCTCGCTCTGCTTCATCCCCTATTATTTTGGCACAACAGGAAGCTGTTGAAGGAGGATGTTCCCATCTTGGT  
CAGTCCTATGCGGATAGAGATGTCTGGAAGCCAGAACCATGCCAAATATGTGTCTGTGACTCAGGATCCGTTCTC  
TGCGATGACATAATATGTGACGATCAAGAATTAGACTGCCCCAACCCAGAAATTCCATTTGGAGAATGTTGTGCA  
GTTTGGCCACAGCCTCCAACCTGCTCCTACTCGCCCTCCTAATGGTCAAGGACCTCAAGGCCCCAAGGGAGATCCA  
GGCCCTCCTGGTATTCTCTGGGAGAAATGGTGACCTGGTATTCCAGGACAACCAGGGTCCCTCGTTCTCTCTGGC  
CCCCCTGGAATCTGTGAATCATGCCCTACTGGTCTCAGAACTATTCTCCCCAGTATGATTTCATATGATGTCAAG  
TCTGGAGTAGCAGTAGGAGGACTCGCAGGCTATCCTGGACCAGCTGGCCCCCAGGCCCCCTCCCGTCCCCCTGGT  
ACATCTGGTCATCCTGGTTCCTCTGGATCTCCAGGATACCAAGGACCCCTGGTGAACCTGGGCAAGCTGGTCCT  
TCAGGCCCTCCAGGACCTCCTGGTGCTATAGGTCCATCTGGTCTGTGCTGGAAGAGATGGAGAATCAGGTAGACCC  
GGACGACCTGGAGAGCGAGGATTGCCCTGGACCTCCAGGTATCAAAGGTCCAGCTGGGATACCTGGATTCCCTGGT  
ATGAAAGGACACAGAGGCTTCGATGGACGAAATGGAGAAAAGGGTGAAACAGGTGCTCCTGGATTAAAGGGTGAA  
AATGGTCTTCCAGGCGAAAATGGAGCTCCTGGACCCATGGGTCCAAGAGGGGCTCCTGGTGAGCGAGGACGGCCA  
GGACTTCCTGGGGCTGCAGGTGCTCGGGGTAATGACGGTGCTCGAGGCAGTGATGGTCAACCAGGCCCTCCTGGT  
CCTCCTGGAACTGCCGGATTCCCTGGATCCCCCTGGTGCTAAGGGTGAAAGTTGGACCTGCAGGGTCTCCTGGTTCA  
AATGGTGCCCTGGACAAAGAGGAGAACCTGGACCTCAGGGACACGCTGGTGCTCAAGGTCTCCTGGCCCTCCT  
GGGATTAATGGTAGTCTGGTGGTAAAGGCGAAATGGGTCCCCTGGCATTCTGGAGCTCCTGGACTGATGGGA  
GCCCCGGGTCTCCAGGACCAGCCGGTGCTAATGGTGCTCCTGGACTGCGAGGTGGTGAGGTGAGCCTGGTAAG  
AATGGTGCCAAAGGAGAGCCCCGACCACGTGGTGAACGCGGTGAGGCTGGTATTCCAGGTGTTCCAGGAGCTAAA  
GGCGAAGATGGCAAGGATGGATCACCTGGAGAACCTGGTGCAAATGGGCTTCCAGGAGCTGCAGGAGAAAGGGGT  
GCCCCCTGGGTTCAGGAGCCTGCTGGACCAAATGGCATCCAGGAGAAAAGGGTCTGCTGGAGAGCGTGGTGCT  
CCAGGCCCTGCAGGGCCAGAGGAGCTGCTGGAGAACCTGGCAGAGATGGCGTCCCTGGAGGTCCAGGAATGAGG  
GGCATGCCCCGAAGTCCAGGAGGACCAGGAAGTGATGGGAAACCAGGGCCTCCCGGAAGTCAAGGAGAAAAGTGGT  
CGACCAGGTCTCCTGGGCCATCTGGTCCCCGAGGTGAGCCTGGTGCTCATGGGCTTCCCCGGTCTTAAAGGAAAT  
GATGGTGCTCCTGGTAAGAATGGAGAACGAGGTGGCCCTGGAGGACCTGGCCCTCAGGGTCTCCTGGAAAGAAT  
GGTGAAACTGGACCTCAAGGACCCCCAGGGCCTACTGGGCCTGGTGGTGACAAAGGAGACACAGGACCCCCCTGGT  
CCACAAGGATTACAAGGCTTGCTGGTACAGGTGGTCTCCAGGAGAAAATGGAACCTGGGGAACCAGGTCCA  
AAGGGTGATGCCGGTGCACCTGGAGCTCCAGGAGGCAAGGGTGATGCTGGTGCCCTGGTGAACGTGGACCTCCT  
GGATTGGCAGGGGCCCCAGGACTTAGAGGTGGAGCTGGTCCCCCTGGTCCCGAAGGAGGAAAGGGTGCTGCTGGT  
CCTCCTGGGCCACCTGGTGCTGCTGGTACTCCTGGTCTGCAAGGAATGCCTGGAGAAAGAGGAGGTCTTGAAGT  
CCTGGTCCAAGGGTGACAAGGGTGAACCAGGCGGCCAGGTGCTGATGGTGCTCCAGGGAAGATGGCCAAGG  
GGTCTACTGGTCTATTGGTCTCCTGGCCAGCTGGCCAGCCTGGAGATAAGGGTGAAGGTGGTCCCCCGGA  
CTTCCAGGTATAGCTGGACCTCGTGGTAGCCCTGGTGAGAGAGGTGAACTGGCCCTCCAGGACCTGCTGGTTTC  
CCTGGTGCTCCTGGACAGAATGGTGAACCTGGTGGTAAAGGAGAAAGAGGGGCTCCGGGTGAGAAAGGTGAAGGA  
GGCCCTCCTGGAGTTGCAGGACCCCCCTGGAGGTCTGGACCTGCTGGTCTCCTGGTCCCCAAGGTGTCAAAGGT  
GAACGTGGCAGTCTGCTGGTGGACCTGGTGCTGCTGGCTTCCCTGGTGCTCGTGGTCTTCTGGTCTCCTGGTAGT  
AATGGTAACCCAGGACCCCCAGGTCCCAGCGGTTCTCCAGGCAAGGATGGGCCCCAGGTCTGCGGGTAACCT  
GGTGCTCCTGGCAGCCCTGGAGTGCTGGACCAAAGGTGATGCTGGCCAACCAGGAGAGAAGGGATCGCCTGGT  
GCCCAGGGCCCCACCAGGAGCTCCAGGCCCACTTGGGATGCTGGGATCACTGGAGCACGGGGTCTTGCAGGACCA  
CCAGGCATGCCAGGTCTAGGGGAAGCCCTGGCCCTCAGGGTGTCAAGGGTGAAAGTGGGAAACCAGGAGCTAAC  
GGTCTCAGTGGAGAACGTGGTCCCCCTGGACCCAGGGTCTTCTGGTCTGGCTGGTACAGCTGGTGAACCTGGA  
AGAGATGGAACCCCTGGATCAGATGGTCTTCCAGGCCGAGATGGATCTCCTGGTGGCAAGGGTGATCGTGGTGAA  
AATGGCTCTCCTGGTGCCCTGGCGCTCCTGGTCAACAGGCCACCTGGTCTGTGGTCCAGCTGGAAAGAGT  
GGTGACAGAGGAGAAAGTGGCCCTGCTGGCCCTGCTGGTGCTCCCGTCTGCTGGTTCCTGAGGTGCTCCTGGT  
CCTCAAGGCCACGTGGTGACAAAGGTGAACGTGGAGCTGCTGGCATCAAAGGACATCGAGGATTCT  
CCTGGTAATCCAGGTGCCCCAGGTTCTCCAGGCCCTGCTGGTGCTCAGCAGGGTGCAATCGGCAGTCCAGGACCTGCA  
GGCCCCAGAGGACCTGTTGGACCCAGTGGACCTCCTGGCAAAGATGGAACCAGTGGACATCCAGGTCCCATTGGA

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**FIGURE 921B**

CCACCAGGGCCTCGAGGTAACAGAGGTGAAAGAGGATCTGAGGGCTCCCCAGGCCACCCAGGGCAACCAGGCCCT  
CCTGGACCTCCTGGTGCCCCCTGGTCCTTGCTGTGGTGGTGGTGGAGCCGCTGCCATTGCTGGGATTGGAGGTGAA  
AAAGCTGGCGGTTTTGCCCGTATTATGGAGATGAACCAATGGATTTCAAAATCAACACCGATGAGATTATGACT  
TCACTCAAGTCTGTAAATGGACAAATAGAAAGCCTCATTAGTCCTGATGGTTCTCGTAAAAACCCCGCTAGAAAC  
TGCAGAGACCTGAAATTCTGCCATCCTGAACTCAAGAGTGGAGAATACTGGGTTGACCCTAACCAAGGATGCAAA  
TTGGATGCTATCAAGGTATTCTGTAATATGGAACTGGGGAAACATGCATAAGTGCCAATCCTTTGAATGTTCCA  
CGGAAACACTGGTGGACAGATTCTAGTGCTGAGAAGAAACACGTTTGGTTTGGAGAGTCCATGGATGGTGGTTTT  
CAGTTTAGCTACGGCAATCCTGAACTTCCTGAAGATGTCCTTGATGTGCAGCTGGCATTCTTCGACTTCTCTCC  
AGCCGAGCTTCCCAGAACATCACATATCACTGCAAAAATAGCATTGCATACATGGATCAGGCCAGTGGAAATGTA  
AAGAAGGCCCTGAAGCTGATGGGGTCAAATGAAGGTGAATTCAGGCTGAAGGAAATAGCAAATTCACCTACACA  
GTTCTGGAGGATGGTTGCACGAAACACACTGGGGAATGGAGCAAAACAGTCTTTGAATATCGAACACGCAAGGCT  
GTGAGACTACCTATTGTAGATATTGCACCCTATGACATTGGTGGTCTGATCAAGAATTTGGTGTGGACGTTGGC  
CCTGTTTGCTTTTTATTAACCAAACCTCTATCTGAAATCCCAACAAAAAAATTTAACTCCATATGTGTTCCTCTT  
GTTCTAATCTTGTCAACCAAGTGCAAGTGACCGACAAAATTCAGTTATTTATTTCCAAAATGTTTGGAAACAGTA  
TAATTTGACAAAGAAAAATGATACTTCTCTTTTTTTTGCTGTTCCACCAAATACAATTCAAATGCTTTTTTGTTTA  
TTTTTTTACCAATTCCAATTTCAAATGTCTCAATGGTGCTATAATAAATAAACTTCAACACTCTTTATGATAAC  
AACACTGTGTTATATTCTTTGAATCCTAGCCCATCTGCAGAGCAATGACTGTGCTCACCAGTAAAGATAACCTT  
TCTTCTGAAATAGTCAAATACGAAATTAGAAAAGCCCTCCCTATTTTAACTACCTCAACTGGTCAGAAACACAG  
ATTGTATTCTATGAGTCCCAGAAGATGAAAAAATTTTATACGTTGATAAACTTATAAATTTTATTGATTAAATC  
TCCTGGAAGATTGGTTTAAAAAGAAAAGTGTAATGCAAGAATTTAAAGAAATATTTTAAAGCCACAATTATTTT  
AATATTGGATATCAACTGCTTGTAAGGTGCTCCTCTTTTTTCTTGTCATTGCTGGTCAAGATTACTAATATTTG  
GGAAGGCTTTAAAGACGCATGTTATGGTGCTAATGTACTTTCACTTTTAACTCTAGATCAGAATTGTTGACTTG  
CATTCAGAACATAAATGCACAAAATCTGTACATGTCTCCCATCAGAAAGATTCATTGGCATGCCACAGGGATTCT  
CCTCCTTCATCCTGTAAAGGTCAACAATAAAAACCAAATTATGGGGCTGCTTTTGTACACTAGCATAGAGAATG  
TGTTGAAATTTAACTTTGTAAGCTTGTATGTGGTGTGATCTTTTTTTTTCTTACAGACACCCATAATAAAATA  
TCATATTAAAAATTC

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**FIGURE 922**

MMSFVQKGSWLLLALLHPTIILAQQEAVEGGCSHLGQSYADRDVWKPEPCQICVCDSGSVLCDDIICDDQELDCP  
NPEIPFGECCAVCPQPPTAPTRPPNGQGPQGPKGDPGPPGIPGRNGDPGIPGQPGSPGSPGPPGICESCPTGPN  
YSPQYDSYDVKSGVAVGGLAGYPGPAGPPGPPGPPGTSGHPGSPGSPGYQGPPEPGQAGPSGPPGPPGAIGPSG  
PAGKDGESGRPRPGERGLPFPPIKGPAGIPGFPGMKGHRGFDGRNGEKGETGAPGLKGENGLPGENGAPGPMG  
PRGAPGERGRPLPGAAGARGNDGARGSDGQPGPPGPPGTAGFPSPGAKGEVGPAGSPGSPGNGAPGQRGEPGPQG  
HAGAQQPPGPPGINGSPPGGKGEMGPAGIPGAPGLMGARGPPGPAGANGAPGLRGGAGEPGKNGAKGEFGPRGERG  
EAGIPGVPGAKGEDGKDGSPPGEPGANGLPGAAGERGAPGFRGPAGPNGIPGEKGPAGERGAPGPAGPRGAAGEPG  
RDGVPPGGPGMRGMPGSPGGPGSDGKPGPPGSQGESGRPGPPGPSGPRGQPGVMGFPGPKGNDGAPGKNGERGGPG  
GPGPQGPFGKNGETGPQGPFGTGPGGDKGDTGPPGPQGLQGLPGTGGPPGENGKPGEPGPKGDAGAPGAPGGKG  
DAGAPGERGPPGLAGAPGLRGGAGFPPEGGKGAAGPPGPPGAAGTPGLQGMPGERGGLGSPGPKGDKGEPGGPG  
ADGVPGKDGPRGPTGPIGPPPGAGQPGDKGEGGAPGLPGIAGPRGSPGERGETGPPGPAGFPAGPQNGEPGGKG  
ERGAPGEKGEGGPPGVAGPPGGSGFAGPPGPQGVKGERGSPGGPGAAGFPARGLPGPPGSNGNPGPPGPSGSPG  
KDGPPGPAGNTGAPGSPGVSGPKGDAGQPGKEKSPGAQGPAGPGLGIAGITGARGLAGPPGMPGPRGSPGPQG  
VKGESGKPGANGLSGERGPPGPQGLPGLAGTAGEPGRDGNPGSDGLPGRDGSPGGKGDRENGSPGAPGAPGHPG  
PPGPVGPAGKSGDRGESGPAGPAGAPGPAGSRGAPGPQGPGRDKGETGERGAAGIKGHRGFPGNPGAPGSPGPAG  
QQGAIGSPGPAGPRGPVGPSPGPPGKDGTSGHPPGPIGPPGPRGNRGERGSEGSFGHPGQPGPPGPPGAPGPCCGGV  
GAAAIAGIGGEKAGGFAPYYGDEPMDFKINTDEIMTSLKSVNGQIESLISPDGSRKNPARNCRDLKFCHPELKSG  
EYWVDPNQGCKLDAIKVFCNMETGETCISANPLNVPRKHWWTDSSAEKKHVWFGESMDGGFQFSYGNPELPEDVL  
DVQLAFLRLSSRASQNTIYHCKNSIAYMDQASGNVKKALKLMGSNEGEFKAEGNSKFTYTVLEDGCTKHTGEWS  
KTVFEYRTRKAVRLPIVDIAPYDIGGPDQEFGVDPVGPVCF

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**FIGURE 923**

ACGCGTCCGAGCTGGCTCAGGGCGTCCGCTAGGCTCGGACGACCTGCTGAGCCTCCCAAACCGCTTCCATAAGGC  
TTTGCCCTTTCCAACCTTCAGCTACAGTGTTAGCTAAGTTTGAAAGAAGGAAAAAGAAAAATCCCTGGGCCCTTT  
TCTTTTGTCTTTTGCCAAAGTCGTCGTTGTAGTCTTTTTGCCCAAGGCTGTTGTGTTTTAGAGGTGCTATCTCC  
AGTTTCCTTGCACTCCTGTTAACAAGCACCTCAGCGAGAGCAGCAGCAGCGATAGCAGCCGCAGAAGAGCCAGCGG  
GGTCGCCTAGTGTCAATGACCAGGGCGGGAGATCACAACCGCCAGAGAGGATGCTGTGGATCCTTGCCGACTACC  
TGACCTCTGCAAAATTCCTTCTCTACCTTGCTCATTCTCTCTCTACTTGGGGAGATCGGATGTGGCACTTTGCGG  
TGTCTGTGTTTCTGGTAGAGCTCTATGGAACAGCCTCCTTTTGACAGCAGTCTACGGGCTGGTGGTGGCAGGGT  
CTGTTCTGGTCCTGGGAGCCATCATCGGTGACTGGGTGGACAAGAATGCTAGACTTAAAGTGGCCAGACCTCGC  
TGGTGGTACAGAATGTTTCAGTCATCCTGTGTGGAATCATCCTGATGATGGTTTTCTTACATAAACATGAGCTTC  
TGACCATGTACCATGGATGGGTCTCACTTCCTGCTATATCCTGATCATCACTATTGCAAATATTGCAAATTTGG  
CCAGTACTGCTACTGCAATCACAATCCAAAGGATTGGATTGTTGTTGTTGTCAGGAGAAGACAGAAGCAAACCTAG  
CAAATATGAATGCCACAATACGAAGGATTGACCAGTTAACCAACATCTTAGCCCCCATGGCTGTTGGCCAGATTA  
TGACATTTGGCTCCCCAGTCATCGGCTGTGGCTTTATTTGGGGATGGAACCTGGTATCCATGTGCGTGGAGTACG  
TCCTGCTCTGGAAGGTTTACCAGAAAACCCAGCTCTAGCTGTGAAAGCTGGTCTTAAAGAAGAGGAACTGAAT  
TGAAACAGCTGAATTTACACAAAGATACTGAGCCAAAACCCCTGGAGGGAACCTCATCTAATGGGTGTGAAAGACT  
CTAACATCCATGAGCTTGAACATGAGCAAGAGCCTACTTGTGCCTCCAGATGGCTGAGCCCTTCCGTACCTTCC  
GAGATGGATGGGTCTCCTACTACAACCAGCCTGTGTTTCTGGCTGGCATGGGTCTTGCTTTTCTTTATATGACTG  
TCCTGGGCTTTGACTGCATCACCACAGGGTACGCCTACACTCAGGGAAGTGGTTCCTCATCTCAGTATTTTGA  
TGGGAGCATCAGCTATAACTGGAATAATGGGAACGTAGCTTTTACTTGGCTACGTGAAAATGTGGTTTGGTTC  
GGACAGGTCTGATCTCAGGATTGGCACAGCTTTCTGTTTGATCTTGTGTGTGATCTCTGTATTTCATGCCTGGAA  
GCCCCCTGGACTTGTCCGTTTTCTCCTTTTGAAGATATCCGATCAAGGTTTCAATTCAAGGAGAGTCAATTACACCTA  
CCAAGATACCTGAAATTACAACCTGAAATATACATGTCTAATGGGTCTAATTCTGCTAATATTGTCCCGGAGACAA  
GTCTGAATCTGTGCCCATATCTCTGTCTAGTCTGCTGTTTGAGGCGTCATTGCTGCTAGAATCGGTCTTTGGT  
CCTTTGATTTAACTGTGACACAGTTGTCTGCAAGAAAATGTAATTGAATCTGAAAGAGGCATTATAAATGGTGTAC  
AGAACTCCATGAACATCTTCTTGATCTTCTGCATTTTCATCATGGTTCATCCTGGCTCCAAATCCTGAAGCTTTTG  
GCTTGCTCGTATTGATTTTCACTCTCCTTTGTGGCAATGGGCCACATTATGTATTTCCGATTTGCCCAAAATACTC  
TGGGAAACAAGCTCTTTGCTTGCGGTCCTGATGCAAAAGAAGTTAGGAAGGAAAATCAAGCAAATACATCTGTTG  
TTTGAGACAGTTTAACTGTTGCTATCCTGTTACTAGATTATATAGAGCACATGTGCTTATTTTGTACTGCAGAAT  
TCCAATAAATGGCTGGGTGTTTTGCTCTGTTTTTACCACAGCTGTGCCTTGAGAACTAAAAGCTGTTTAGGAAAC  
CTAAGTCAGCAGAAATTAAGTATTAATTTCCCTTATGTTGAGGCATGGAAAAAAATTTGAAAAAGAAAACTCA  
GTTTAAATACGGAGACTATAATGATAACACTGAATTTCCCTATTTCTCATGAGTAGATACAATCTTACGTAAAAG  
AGTGGTTAGTCACGTGAATTCAGTTATCATTTGACAGATTCTTATCTGTACTAGAATTCAGATATGTCAGTTTTT  
TGCAAAACTCACTCTTGTTCAAGACTAGCTAATTTATTTTTTGCATCTTAGTTATTTTTTAAAAACAAATTTCTC  
AAGTATGAAGACTAAATTTTGATAACTAATATTATCCTTATTGATCCTATTGATCTTAAGGTATTTACATGTATG  
TGGAAAAACAAACACTTAACTAGAATTCTCTAATAAGGTTTATGGTTTAGCTTAAAGAGCACCTTTGTATTTTT  
ATTATCAGATGGGGCAACATATTGTATGAAGCATATGTAGCACTTCACAGCATGGTTATCATGTAAGCTGCAGGT  
AGAAGCAAAGCTGTAAAGTAGATTTATCACACAATGACTGCATACAGACTTCAAATATGTCAATAGTTTGGTCAT  
AGAACCTAGAAGCCAAAAGCCACACAGAAGGGCAAGAATCCCAATTTAACTCATGTTATCATCATTAGTGATCTG  
TGTGTAGAACATGAGGGTGTAAAGCCTTCAGCCTGGCAAGTTACATGTAGAAAGCCACACTTGTGAAGGTTTTG  
TTTTACAAATCACTTGATTTAACACACTCAGGTAGAATAATTTTTTACTGTTTTATACCCAGAAGTTATTT  
CTACATTGTTCTACAGCAAGAATATTCATAAAAGTATCCCTTTCAAATGCCTTTGAGAAGAATAGAAGAAAAAA  
GTTTGTATATATTTTTAAAAAATTGTTTTTAAAGTCAGTTTGCAACATGTCTGTACCAAGATGGTACTTTGCCTTA  
ACCGTTTATATGCACCTTTCATGGAGACTGCAATACGTTGCTATGAGCACTTTCTTTATCCTTGGAGTTTAACTCT  
TTGCTTCATCTTTCTACAGTATGACATAATGATTGTGCTATGTTGTAAATCTTTGTAAAAAATTTCTATATAAAA  
ATATTTTGAAAAATCTTAAAAAATAAAAAA

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**FIGURE 924**

MTRAGDHNQRGCGSLADYLTSAKFLLYLGHSLSTWGD RMWHFAVSVFLVELYGN SLLLLTAVYGLVVAGSVLVL  
GAIIGDWVDKNARLKVAQTSLVVQNVSVILCGIILMMVFLHKHELLTMYHGWVLTSCYILIITIANIANLASTAT  
AITIQRDWIVVVAGEDRSKLANMNATIRRIDQLTNILAPMAVGQIMTFGSPVIGCGFISGWNLVSMCVEYVLLWK  
VYQKTPALAVKAGLKEEETELKQLNLHKDTEPKPLEGTHLMGVKDSNIHELEHEQEPTCASQMAEPFRTFRDGVV  
SYYNQPVFLAGMGLAFLYMTVLGFDCITTGYAYTQGLSGSILSILMGASAITGIMGTVAFTWLRRKCGLVRTGLI  
SGLAQLSCLILCVISVFMPGSPLDLSVSPFEDIRSRFIQGESITPTKIPEITTEIYMSNGSNSANIVPETSPEV  
PIISVSLLFAGVIAARIGLWSFDLTVTQLLQENVIESERGIINGVQNSMNYLLDLLHFIMVILAPNPEAFGLLVL  
ISVSFVAMGHIMYFRFAQNTLG NKLFACGPDAKEVRKENQANTSVV

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**FIGURE 925**

TTTTGTGAAGAGACGAAGACTGAGCGGTTGCGGCCGCGTTGCCGACCTCCAGCAGCAGTCGGCTTCTCTACGCAG  
AACCCGGGAGTAGGAGACTCAGAATCGAATCTCTTCTCCCTCCCCCTTCTTGTTTTCGGCTTTGTGAGAAACCTTA  
CCATCAAACACAATGGCCAGCAACGTTACCAACAAGACAGATCCTCGTTCCATGAACTCCCGTGTATTATTGGG  
AATCTCAACACTCTTGTGGTCAAGAAATCTGATGTGGAGGCAATCTTTTCGAAGTATGGCAAAATTGTGGGCTGC  
TCTGTTTATAAGGGCTTTGCCTTCTTTTCACTATGTTAATGAGAGAAATGCCCGGGCTGCTGTAGCAGGAGAGGAT  
GGCAGAATGATTGCTGGCCAGGTTTTAGATATTAACCTGGCTGCAGAGCCAAAAGTGAACCGAGGAAAAGCAGGT  
GTGAAACGATCTGCAGCGGAGATGTACGGCTCCTCTTTTGAAGTGGATTGTGACTTTCAACGGGACTATTATGAT  
AGGATGTACAGTTACCCAGCACGTGTACCTCCTCCTCCTATTGCTCGGGCTGTAGTGCCCTCGAAACGTCAG  
CGTGTATCAGGAAACACTTCACAAAGGGGCATAAGTGGCTTCAATTCTAAGAGTGGACAGCGGGGATCTTCCAAG  
TCTGGAAAGTTGAAAGGAGATGACCTTCAGGCCATTAAGAGGGAGCTGACCCAGATAAAACAAAAAGTGGATTCT  
TTCTTGAAAAACCTGGAAAAAATTGAAAAGGAACAGAGCAAACAAGCAGTAGAGATGAACAATGTTAAGTCAGAA  
GAGGAGCAGAGCAGCAGCTCCGTGAAGAAAGATGAGACTAATGTGAAGATGGAGTCTGAGGGGGGTGCAGATGAC  
TCTGCTGAGGAGGGGGACCTACTGGATGATGATGATAATGAAGATGGGGGGATGACCAGCTGGAGTTGATCAAGG  
ATGATGAAAAAGAGGCTGAGGAAGGAGAGGATGACAGAGACAGCGCCAATGGCGAGGATGACTCTTAAGCACATA  
GTGGGGTTTAGAAATCTTATCCCATTTTCTTTTACCTAGGCGCTTGTCTAAGATCAAATTTTTTACCAGATCCT  
CTCCCTAGTATCTTCAGCACATGCTCAGTGTTCCTTTCCCATCCTTGTCTTCCCATGTTTATTATTAATTCATA  
TTGCCCCGCGCCTAGTCCCATTTTCACTTCCTTTGACGCTCCTAGTAGTTTGTGTTAAGTCTTACCCTGTAATTTT  
TGCTTTTAAATTTTGATACCTCTTTATGACTTAACAATAAAATGATGTATGGTTTTTATCAACTGTCTCCAAAAT  
AATCTCTTGTATGCAGGGAGTACAGTTCTTTTATTATACATAAGTTTCAAGTAGTTGCTTCCCTAACTGCAAAG  
GCAATCTCATTTAGTTGAGTAGCTCTTGAAAGCAGCTTTGAGTTAGAAGTATGTGTGTTACACCCCCACATTAGT  
GTGCTGTGTGGGGCAGTTCAACACAAATGTAACAATGTATTTTTGTGAATGAGAGTTGGCATGTCAAATGCATCC  
TCTAGAAAAATAATTAGTGTATAGTCTTAAGATTTGTTTTCTAAAGTTGATACTGTGGGTATTTTTGTGAACA  
GCCTGATGTTTTGGGACCTTTTTTCTCCTCAAATAAACAAGTCCTTATTAAACCAGG



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**FIGURE 926**

GCCGACCTCCAGCAGCAGTCGGCTTCTCTACGCAGAACCCGGGAGTAGGAGACTCAGAATCGAATCTCTTCTCCC  
TCCCCTTCTTGTTTTCGGCTTTGTGAGAAACCTTACCATCAAACACAATGGCCAGCAACGTTACCAACAAGACAG  
ATCCTCGTTCCATGAACTCCCGTGTATTCAATTGGGAATCTCAACACTCTTGTGGTCAAGAAATCTGATGTGGAGG  
CAATCTTTTCGAAGTATGGCAAATTTGTGGGCTGCTCTGTTTCATAAGGGCTTTGCCTTCTTTCAGTATGTTAATG  
AGAGAAATGCCCCGGGCTGCTGTAGCAGGAGAGGATGGCAGAATGATTGCTGGCCAGGTTTTAGATATTAACCTGG  
CTGCAGAGCCAAAAGTGAACCGAGGAAAAGCAGGTGTGAAACGATCTGCAGCGGAGATGACCTTCAGGCCATTAA  
GAGGGAGCTGACCCAGATAAAACAAAAAGTGGATTCTTTCCTGGAAAACCTGGAAAAAATTGAAAAGGAACAGAG  
CAAACAAGCAGTAGAGATGAACAATGTTAAGTCAGAAGAGGAGCAGAGCAGCAGCTCCGTGAAGAAAAGATGAGAC  
TAATGTGAAGATGGAGTCTGAGGGGGGTGCAGATGACTCTGCTGAGGAGGGGGACCTACTGGATGATGATGATAA  
TGAAGATGGGGGGATGACCAGCTGGAGTTGATCAAGGATGAGGATGACTCTTAAGCACATAGTGGGGTTTAGAAA  
TCTTATCCCATTTTCTTTACCTAGGCGCTTGCTAAGATCAAATTTTACCAGATCCTCTCCCCTAGTATCT  
TCAGCACATGCTCACTGTTTTCCCATCCTTGTCCTTCCCATGTTTATTAAATTAATTATATGCCCCGCGCCTA  
GTCCCATTTTCACTTCCTTTGACGCTCCTAGTAGTTTTGTTAAGT

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**FIGURE 927**

GAGACGAAGACTGAGCGGTTGCGGCCGCGTTGCCGACCTCCCCTTCTTGTTTTCGGCTTTGTGAGAAACCTTACC  
ATCAAACACAATGGCCAGCAACGTTACCAACAAGACAGATCCTCGTTCCATGAACTCCCGTGTATTCATTGGGAA  
TCTCAACACTCTTGTTGGTCAAGAAATCTGATGTGGAGGCAATCTTTTCGAAGTATGGCAAAATTGTGGGCTGCTC  
TGTTTCATAAGGGCTTTGCCTTCTTTCAGTATGTTAATGAGAGAAATGCCCGGGCTGCTGTAGCAGGAGAGGATGG  
CAGAATGATTGCTGGCCAGGTTTTAGATATTAACCTGGCTGCAGAGCCAAAAGTGAACCGAGGAAAAGCAGGTGT  
GAAACGATCTGCAGCGGAGATGTACGGCTCCTCTTTTGAAGTTGGATTGTGACTTTCAACGGGACTATTATGATAG  
GATGTACAGTTACCCAGCACGTGTACCTCCTCCTCCTCCTATTGCTCGGGCTGTAGTGCCCTCGAAACGTCAGCG  
TGTATCAGGAAACACTTCACAAAGGGGCATAAGTGGCTTCAATTCTAAGAGTGGACAGCGGGGATCTTCCAAGTC  
TGGAAGTTGAAAGGAGATGACCTTCAGGCCATTAAGAGGGAGCTGACCCAGATAAAAACAAAAAGTGGATTCTTT  
CCTGGAAAACCTGGAAAAAATTGAAAAGGAACAGAGCAAACAAGCACTGGAGTTGATCAAGGATGATGAAAAAGA  
GGCTGAGGAAGGAGAGGATGACAGAGACAGCGCCAATGGCGAGGATGACTCTTAAGCACATAGTGGGGTTTAGAA  
ATCTTATCCCATTTATTTCTTTACCTAGGCGCTTGTCTAAGATCAAATTTTTTACCAGATCCTCTCCCTAGTATC  
TTCAGCACATGCTCACTGTTTTCCCCATCCTTGTCTTCCCATGTTTCATTAATTAATTCATATTGCCCCGCGCCT  
AGTCCCATTTTTCACTTCCTTTGACGCTCCTAGTAGTTTT

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**FIGURE 928**

ATCTTTTAGAGAAATCTCGGGTTGTTAAACAGCCAAGAGGTGAAAGAAACTTCCATGTGTTCTATCAGCTGCTCT  
CTGGTGCCTCTGAAGAGCTCCTCAATAAACTTAAGCTTGAGAGGGATTTACAGCAGGTATAACTACCTGAGTCTGG  
ATTTCGGCCAAAGTGAATGGAGTGGATGATGCAGCAAATTTTAGAACCGTGCGGAATGCCATGCAGATTGTGGGCT  
TTATGGATCATGAAGCTGAGTCTGTCTTGGCGGTGGTGGCAGCAGTGTGAAACTGGGGAAACATTGAGTTCAAGC  
CCGAATCTCGAGTGAATGGTCTAGATGAAAGCAAATCAAAGATAAAAATGAGTTAAAAGAAATTTGTGAATTGA  
CCGGCATTGATCAATCAGTTCTAGAACGAGCATTAGTTTCCGAACAGTTGAGGCCAAAACAGGAGAAAGTTTCAA  
CTACACTGAATGTGGCTCAGGCTTATTATGCCCCGTGATGCTCTGGCTAAAAACCTCTACAGCAGGTTGTTTTCAT  
GGTTGGTAAATCGAATCAATGAAAGCATTAAAGGCACAAACAAAAGTGAGAAAGAAGGTCATGGGTGTTCTGGACA  
TTTATGGCTTTGAGATTTTCGAGGACAACAGCTTTGAGCAGTTTATTATTAATTATTGTAACGAAAAGCTGCAAC  
AAATCTTCATTGAACCTACTCTTAAAGAAGAGCAGGAGGAGTATATACGGGAGGATATAGAATGGACTCACATTG  
ACTACTTCAATAATGCTATCATTTGTGACCTAATAGAAAATAACACAAATGGAATCCTGGCCATGCTGGATGAAG  
AGTGCCTCAGACCTGGCACAGTCACTGATGAGACCTTCTTAGAAAAGCTGAACCAAGTATGTGCCACCCACCAGC  
ATTTTGAGAGCAGGATGAGCAAGTGCTCTCGGTTCCCTCAATGACACGTCTCTGCCTCACAGCTGCTTCAGGATCC  
AGCATTATGCTGGAAGGTGCTGTACCAGGTGGAAGGATTTCGTTGACAAAAACAATGACCTTCTCTATCGAGACC  
TGTCCTCAAGCCATGTGGAAGGCCAGCCATGCCCTCATCAAGTCTTTGTTCCCCGAAGGGAATCCCGCCAAGATCA  
ACCTGAAAAGGCCTCCTACAGCAGGCTCACAGTTCAAGGCATCCGTGGCCACTCTGATGAAAAACCTACAGACCA  
AGAACCCAACTATATTAGGTGTATCAAACCGAATGATAAAAAAGCAGCACACATCTTCAACGAGGCTCTAGTGT  
GTCATCAGATCAGGTACCTGGGGCTTTTGGAGAACGTCCGAGTGCGGAGGGCAGGCTACGCCTTCAGGCAGGCCT  
ATGAACCTTGCTAGAAAAGATACAAAATGCTTTGTAAACAAACATGGCCTCATTGGAAGGACCAGCCAGGTCTG  
GTGTGGAGGTCTATTTAATGAATTAGAAATTCCTGGAAGAATACTCTTTGGTAGATCAAAGATATTCATCC  
GAAACCCAAGAACATTATTCAAATTAGAAGACCTGAGGAAGCAACGCCTGGAGGACTTGGCCACTCTCATTGAGA  
AGATATATCGGGGGTGGAAATGCCGCACACACTTCTGCTAATGAAAAAAGCCAAATTGTGATTGCCGCCTGGT  
ACAGGAGATATGCGCAACAAAAGAGGTACCAGCAGACAAAGAGTTCCGCCTTAGTAATTCAGTCTTATATCCGGG  
GTTGGAAGGCICGAAAAATTCTGCGGGAAGTGAAGCATCAAAGCGCTGTAAGGAAGCAGTCACGACCATTGCTG  
CATATTGGCATGGGACCCAGGCTCGAAGGGAATTGAAACGCTTGAAGGAGGAGGCTAGGCGTAAGCATGCAGTTG  
CTGTCAATTTGGGCTTACTGGCTTGGACTGAAGGTACGTAGAGAATACAGGAAATTCTTCAGAGCCAATGCTGGAA  
AGAAAATCTATGAGTTTACGCTTCAGAGAATTGTGCAAAAATACTTCTTGGAATGAAAAATAAGATGCCTTCCCT  
TATCTCCAATAGACAAGAATTGGCCCTCAAGACCTTACTTATTCTTGGATTCTACTCACAAGGAGCTAAAAAGGA  
TTTTCCACTTGTGGAGGTGTAAAAAATACAGGGACCAATTCACAGACCAGCAGAACTTATTTATGAAGAGAAAC  
TAGAAGCCAGTGAACCTTTCAAAGACAAGAAGGCTTTATACCCATCTAGTGTGGGCAACCATTCCAAGGGGCTT  
ACCTGGAAATCAACAAGAACCCCAAGTATAAGAAACTCAAAGATGCCATTGAAGAAAAGATCATCATTGCTGAAG  
TCGTGAACAAAATTAACCGTGCTAATGGGAAGAGTACATCTCGGATTTTCTCTTAACAAACAATAATCTCCTTC  
TTGCTGACCAAAAGTCTGGACAAATCAAGTCAGAGGTTCCATTGGTGGATGTGACCAAGGTATCAATGAGCTCAC  
AAAATGATGGCTTCTTCGCCGTCCACCTCAAAGAGGGCTCAGAAGCAGCTAGTAAAGGAGACTTTCTCTTCAGCA  
GTGATCACCTGATTGAAATGGCCACCAAGCTCTATCGCACAACTCTCAGCCAAACCAACAGAAGCTCAATATTG  
AGATTTCGATGAGTTCTTGGTACAGTTTACAGACAGGACAAAGTATGTGTGAAGTTTATTAGGAACCTGTAGTAT  
GATATTTAACAATATAGGCTTCAAGAAGGGCTGGTCTAAGAGGGGGCAGAAATGAATGACCAGGTTAAATCCCT  
CTACATGTGGTTTCTGTTTG

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**FIGURE 929**

AGGTCAGAAATGTGAATTCCAGGATGCCTATGTTCTGTTGAGTGAAAAGAAAATTTCTAGTATCCAGTCCATTGT  
ACCTGCTCTTGAAATTGCCAATGCTCACCGTAAGCCTTTGGTCATAATCGCTGAAGATGTTGATGGAGAAGCTCT  
AAGTACACTCGTCTTGAATAGGCTAAAGGTTGGTCTTCAGGTTGTGGCAGTCAAGGCTCCAGGGTTTGGTGACAA  
TAGAAAGAACCAGCTTAAAGATATGGCTATTGCTACTGGTGGTGCAGTGTTTGGAGAAGAGGGATTGACCCTGAA  
TCTTGAAGACGTTACGCCTCATGACTTAGGAAAAGTTGGAGAGGTCATTGTGACCAAAGACGATGCCATGCTCTT  
AAAAGGAAAAGGTGACAAGGCTCAAATTGAAAAACGTATTCAAGAAATCATTGAGCAGTTAGATGTCACAACTAG  
TGAATATGAAAAGGAAAAAAGTGAATGAACGGCTTGCAAACTTTTCAGATGGAGTGGCTGTGCTGAAGGTTGGTGG  
GACAAGTGATGTTGAAGTGAATGAAAAGAAAGACAGAGTTACAGATGCCCTTAATGCTACAAGAGCTGCTGTTGA  
AGAAGGCATTGTTTTGGGAGGGGGTTGTGCCCTCCTTCGATGCATTCCAGCCTTGGACTCATTGACTCCAGCTAA  
TGAAGATCAAAAAAATTGGTATAGAAATTATTAAAAGAACACTCAAAATTCAGCAATGACCATTGCTAAGAATGC  
AGGTGTTGAAGGATCTTTGATAGTTGAGAAAATTATGCAAAGTTCCCTCAGAAGTTGGTTATGATGCTATGGCTGG  
AGATTTTGTGAATATGGTGGAAAAAGGAATCATTGACCCAACAAAGGTTGTGAGAACTGCTTTATTGGATGCTGC  
TGGTGTGGCCTCTCTGTAACTACAGCAGAAGTTGTAGTCACAGAAATTCCTAAAGAAGAGAAAGGACCCTGGAAT  
GGGTGCAATGGGTGGAATGGGAGGTGGTATGGGAGGTGGCATGTTCTAACTCCTAGACTAGTGCTTTACCTTTAT  
TAATGAACGTGTACAGGAAGCCCAAGGCAGTGTTCCCTACCAATAACTTCAGAGAAGTCAGTTGGAGAAAATGAA  
GAAAAAGGCTGGCTGAAAATCACTATAACCATCAGTTACTGGTTTCAGTTGACAAAATATATAATGGTTTACTGC  
TGTCAATTGTCCATGCCTACAGATAATTTATTTTGTATTTTGAATAAAAAACATTTGTACATTCCTGATACTGGG  
TACAAGAGCCATGTACCAAGTGTACTGCTTTCAACTTAAATCACTGAGGCATTTTTACTACTATTCTGTAAAATC  
AGGATTTTAGTGCTTGCCACCACCAGATGAGAAAGTTAAGCAGCCTTTCTGTGGAGAGTGAGAATAATTGTGTACA  
AAGTAGAGAAGTATCCAATTATGTGACAACCTTTGTGTAATAAAAAATTTGTTTAA

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**FIGURE 930**

GCTACACTAGAGCAGAGTACGAGTCTGAGGCGGAGGGAGTAATGGCAGGACAAGCGTTTAGAAAGTTTCTTCCAC  
TCTTTGACCGAGTATTGGTTGAAAGGAGTGCTGCTGAACTGTAACCAAAGGAGGCATTATGCTTCCAGAAAAAT  
CTCAAGGAAAAGTATTGCAAGCAACAGTAGTCGCTGTTGGATCGGGTTCTAAAGGAAAGGGTGGAGAGATTCAAC  
CAGTTAGCGTGAAAGTTGGAGATAAAGTTCTTCTCCCAGAATATGGAGGCACCAAAGTAGTTCTAGATGACAAGG  
ATTATTTCTATTATTAGAGATGGTGACATTCTTGAAAGTACGTAGACTTGAAATAAGTCACTATTGAAATGGCATC  
AACATGATGCTGCCCATTCCACTGAAGTTCTGAAATCTTTTCGTCATGTAAATAATTCCATATTTCTCTTTTATA  
ATAAACTAATGATACTAATGACATCCAGTGTCTCCAAAATTGTTTCCTTGTTACTGATATAAACACTTCCAAATA  
AAAAATATGTAAAT

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**FIGURE 931**

MAGQAFRKFLPLFDRVLVERSAAETVTKGGIMLPEKSQGKVLQATVVAVGSGSKGKGGEIQPVSVKVGDKVLLPE  
YGGTKVVLDDKDYFLFRDGDILGKYVD

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**FIGURE 932**

GATTTGACCCTTGAGCCGTAGGGAGCGCGGCATTTTCTGGAAAGTTCTGGAACCGAGCGAGGCCCGGGAAGTAGA  
CTAAGCCGGCCGGAGAGGGCTGAGCGCGCTAGCACACCCTGCGCGGAAATGCTTCGGTTACCCACAGTCTTTCGC  
CAGATGAGACCGGTGTCCAGGGTACTGGCTCCTCATCTCACTCGGGCTTATGCCAAAGATGTAAAATTTGGTGCA  
GATGCCCCGAGCCTTAATGCTTCAAGGTGTAGACCTTTTAGCCGATGCTGTGGCCGTTACAATGGGGCCAAAGGGA  
AGAACAGTGATTATTGAGCAGAGTTGGGGAAGTCCCAAAGTAACAAAAGATGGTGTGACTGTTGCAAAGTCAATT  
GACTTAAAAGATAAATACAAAACATTGGAGCTAAACTTGTTCAAGATGTTGCCAATAACACAAATGAAGAAGCT  
GGGGATGGCACTACCACTGCTACTGTACTGGCAGCTCTATAGCCAAGGAAGGCTTCGAGAAGATTAGCAAAGGT  
GCTAATCCAGTGGAATCAGGAGAGGTAGGAATGTCTGTTGTCACCACAGTGTCTAACTTCAGTGTGCTTTAA  
GGCATTGATTCTTGGACCTAAGGAAAGTGTTAACTTGAGGAAATTAATCCTTCTCTCATTCTCCTCTTGGCCT  
GGAGAAATCTTAAACTGGGTTTTCTTTAGCAAGCTTGGCTGT

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**FIGURE 933**

TGGAAAGAGTGGAAACGAGAAAAACCTTTTCAGACTATTGTGTTCTGGGCCAGCGTCCAATGCATTACCAAATATGA  
ACCAGCTGGCATCCCTGGGGAAAAACCAACGAACAGTCTCCTCACAGCCAAATTCACCACAGTACTCCAATCCGAA  
ACCAAGTGCCCGCATTACAGCCCATCATGAGCCCTGGTCTTCTTTCTCCCCAGCTTAGTCCACAACCTTGTAAGGC  
AACAAATAGCCATGGCCCATCTGATAAACCAACAGATTGCCGTTAGCCGGCTCCTGGCTCACCAGCATCCTCAAG  
CCATCAACCAGCAGTTCTGAACCATCCACCCATCCCCAGAGCAGTTAAGCCAGAGCCAACCAACTCTTCCGTGG  
AAGTCTCTCCAGATATCTACCAGCAAGTCAGAGATGAGCTGAAGAGGGGCCAGTGTGTCCCAAGCTGTCTTTGCAA  
GAGTGGCATTCAACCGCACACAGGTACAATTAGCATTAAACACTGTAAATTAACAGTAATACTGGGGACAGAATTG  
AGATAGGTTATAATTATTTTTATCTCTTTAAAAAGCTTTATGGATCTCAGGACATAGAATTAGATTAAATTAATA  
TCCTTAGTTAATGAAACGCTATTACCATTGATCCATGCATGACCATGATTAATTAATACTAATTGATTAAATTTGAT  
GAGGTAATGGACATCTTTGAACCCAACATGCAACTCAGGACCCCAAATGTTACTAATGACTTGGGTATGTACTCT  
CTCATCCTCTCCATTTACTGTTTGCAGATGTAACCCTGATCTTGAATTTTGTGATTATCAGTCTCTTGCCATTTT  
TTAAAACAAATTATAAACTATGCATGCCAGACAATCTATTTTTTTCCCTTGGTTTTGAACGTTATAAAAGAAA  
TAAATTTATGTTTTATAATTTTATAAGTAAAGTTTTATTTAAAAATTTATAAAAATCCTTCAAAACATAAAAGTT  
AGATTTAAGATATTGATAAAATGATAATGGATAGTTTACTTTTATTTTTAATGTTTGAGAGAATTATATGCCAAT  
TATAACACTAAATGTTGAAAATGTAAACAGTTAATTCACACGTCTTATTTTTATTGAGGGTGCTTATATGTAAGA  
CATTCTTTTCTGCTAGTAGTTCTTAAACTGGAGTGTGCATCAGAATCACCTGGAGGGCTGTGAAACACAGACTGC  
TGGGCCTCATCCCATAGTTTCTGATTGAGTAAGTCTGAGGTTGGACTCAGAAATGGACATTTCTAACAAGATCCC  
AGGTGATTATGATGGTACTGATCCGGGGCCGCATGTTGAGAAAACTTACCTAGCCCTTATATGAGTAAGAACAA  
AGCAGATGTGCATAATCTCGGGGAGCTAACGATCTAGTGGTGAAAACAGGTAACCAGATAATTAGAGTAAATG  
TGAAGTGTTATGAGTAATGTTGGAGAGTGTAAGCAATAGTTGTGGTGGAGGTTTCATGGTGAGCTGGAGGTGAGGA  
ATACTTCCAGGAGAATGAATATGGTAAGCCTTCAAGAAAACAGTAGATTAAAATTTCAGCACCCCTCGTAAATGCA  
AGGCAGGAAGCTAAGCTCTATGTGGGTGCAAAGAGGAAAAAGATAATGGGCAAGCACATATGTAAACAACACTCT  
AGAGTATTAGGTTGTCAATGGGTTAGACCTTGAAGGATTAATAAAGTACAGCAGGCAAAGATGATGAAGAAGAAG  
ATTATTATTTTAAAGGTAAAGACATTCATAGGAAAGATGTTGAGTTAAAAAATGCAGGAATAATTTGAAGACATAA  
AACAACTGATTTCTGAGAAAAACCTGTGAACGTACAGAATGTAGGAATGCTTTTCAATTTATCTGATACCTGTTCA  
GAGACACATGATAACACACGCTGTAGATGGACCTTACAAATGAAAGAAAGCATGCTGGATTGAAACCTCAATAAT  
TTGGAAAATACAGGAATGTTTCCAAATTTAATGATTACTTCAGAAGTTAAGGGGCTGGGCACAGTGGCTCATGTC  
TGTAAGTCTTAGCACTTTGGGAGGCCAAGGTGGGCGGATCACTTGAGGTCAGGAGTTCAAGACCAGCCTGGGCAAG  
ATGGTAAACACCATCTCTACTAAAAACAGAACAAAAACAAAAAATTAGCTGGGCGTGGTGATGCGTGCCGTGTAGT  
CTCAGCTACTCAGGAGGCTGAGGCAGAAGAATCCCTTGAACCCAGGAGGCGGAGGCTGCAGTGAGCCGAGATCAT  
GCCACTGCACTCCAGCCTGAGTGAGAGTGAACTCCATCTCAAAAAAAAAAAAAAAAAA



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**FIGURE 934**

GAGAGGAGACACCGCCGAGTTGCCGGTACATCGGGGATTTCTGGCTCTTTCCTCTTCGCCTTAAATTCGGGTGT  
CTTTTATGAATAATCAAAAGCAGCAAAAGCCAACGCTATCAGGCCAGCGTTTTAAACTAGAAAAAGAGATGAAA  
AAGAGAGGTTTGACCTACTCAGTTTCAAGACTGTATTATTCAAGGCTTAACTGAAACCGGTACTGATTTGGAAG  
CAGTAGCTAAGTTTCTTGATGCTTCTGGAGCAAACTTGATTACCGTCGATATGCAGAAACACTCTTTGACATTC  
TGGTGGCTGGTGGAATGCTGGCCCCAGGTGGTACACTGGCAGATGACATGATGCGTACAGATGCTGCGTGTGTTG  
CAGCCCAAGAAGATCTAGAGACCATGCAAGCATTGCTCAGGTTTTTAACAAGTTAATCAGGCGCTACAAATACC  
TGGAGAAAGGTTTTGAAGATGAAGTAAAAAGCTGCTGCTGTTCTTGAAGGGTTTTTCAGAGTCGGAGAGGAACA  
AGCTAGCTATGTTGACTGGTGTCTTCTGGCTAATGGAACACTTAATGCATCCATTCTTAATAGCCTTTATAATG  
AAAAATTTGGTTAAAGAAGGAGTTTCAGCAGCTTTTGTCTGTGAAGCTCTTTAAATCATGGATAAATGAAAAAGATA  
TCAATGCACTAGCTGCAAGTCTTCGGAAAGTCAGCATGGATAACAGACTGATGGAACCTTTTCCTGCCAATAAGC  
AAAGTGTGAAACACTTCACAAAATATTTTTACTGAGGCAGGCTTGAAAGAGCTTTCAGAATATGTTCCGAATCAGC  
AAACCATCGGAGCTCGTAAGGAGCTCCAGAAAGAACTTCAAGAACAGATGTCCCGTGGTGATCCATTTAAGGATA  
TAATTTTATATGTCAAGGAGGAGATGAAAAAAACAACATCCCAGAGCCAGTTGTCATCGGAATAGTCTGGTCAA  
GTGTAATGAGCACTGTGGAATGGAACAAAAAGAGGAGCTTGTAGCAGAGCAAGCCATCAAGCACTTGAAGCAAT  
ACAGCCCTCTACTTGCTGCCTTTACTACTCAAGGTCAGTCTGAGCTGACTCTGTTACTGAAGATTCAGGAGTATT  
GCTATGACAACATTCATTTTCATGAAAGCCTTCCAGAAAATAGTGGTGCTTTTTTATAAAGCTGAAGTCCTGAGCG  
AGGAGCCCATTTTGAAGTGGTATAAAGATGCACATGTTGCAAAGGGGAAGAGTGTTCCTTGAGCAAATGAAAA  
AGTTTGTAGAATGGCTCAAAAATGCTGAAGAAGAATCTGAATCTGAAGCTGAAGAAGGTGACTGAATTTTGAAC  
TACACCCTCAGTAAAGCAAACAGGAGTTGTAGATAAAATGTCATGTCTCATGTGTCTGCTGGTCTTACATCTTCT  
ACCTCCCTGTATCAAGCATGATATAAGGGCTTTTCATGGCAAATTTTATTTTAACTGTTTCTATGGTTGCTGGAAA  
TGTTGGGTTTAGTTTCTAAAACCATGTTTTAAGTAGCTACAGGAGCTATAGATTTGAATCTAATGTTGCATTAGT  
CTTTTCAGTTATCTTCTACCTCCTGTATTTTCTACTGTAATAATGTAATTTAAGGCCTTCCACAATGAACAGTTC  
ACTTTATTCCTGGGTTTTCTATAAACAGTTTTAAGGATATGATTTGGTTAAAAAATAATTTGTTATAAAAAATTC  
TGTTTGCAAATTAACCTGGAAAAGTATCCAGAGTCTCAAAAGGCAATGATTTGTGAGATAATATGGCATGCCCGG  
AGCCCTGCTCATCAATGAAAAACCCATATGTAATAATCGAATTCATTTAACATGAATCTTGAGTACGTGGACCAT  
TGCTTGCATGTTAACTTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTG  
AATTGTTTTGGTCTCTGGTTTTTCATCCTTAGAGAAGCCATGGAGAACAGACTTGAAAAGTTTAGGAAATCATAATG  
TGGCAGAGGTGGTGGGAAGAAGAAAGTTGAGCTTTTTCCCTTGAGAACTTCTGCATTTAGTTTCTATCTTTCC  
AGGCAAAACAAATGGGTATTCTTTTCATACAACCATTTTCAAATGAACCTTAGAAAAGTCTTAACATTTAAGGTA  
TTTTATGCACAGAATACACTTAGATTGATAGGAAAGAACTCGTAATGGAGTTTGAGTAAAGAAAATGACTGATGT  
ACTAAACCCAGTAAAAATGTTGAAAATGTTAAAGGTCAGCATGTTCTAATTGGGAATCTAGATATAGCTTAGAT  
TTCCATTATGGCTTAGAGTATTTGCTATAACAAATGAAGTGCAATGACAATTATATATTCCTACTCGGTCATACTG  
GACTGGCTTCGTTCTCTTAATATACTCAGTAATGACTCAAGCCTCTGGCTATTAACATACCCTAGTTGCCGTTTT  
TTAATTGCCATGAGCCAAATACTTCTTGGTATACAATTGATCCATTTATTTTAAATGGCTGCCTTTTCATTTTCAT  
CTTTTCTTGCTGCTACCCATCTAIGTATGTAGTCATTGGGGGGAAAAATGTAGCCACATTTTTTATGGGAAGACTT  
TGTGTTAAAAGTGAACATTTTGAAGGTTTTTAACTGGTGAACTAGCCTGGAATAATGCCACCAGAGACTGAGTG  
GAAATCGCCCTTTTGAAGGTGCCATTCTTATGAGCCAAAAGTTTGTCAATTTAAAAGTTCATTTTGAGGGAATAA  
CATGTAATATAATTTGAAATAAAGGTATAGTAACCTTAAAAAGAACATTATAACTGATTGTTGTGAATGGGGTGA  
ATTTGTTAAAATGAGTAACTTTGATAAAGTTTTTCATGCACAGGCAAAATGTATTCCTAGATTTCTACGTAGTG  
ATCTGCTTTTACTTTGTAAATTTGTAGTTCTCAAAAGACTTTTTTTTAAAAAATAAAGTCCATACTTACACTT

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**FIGURE 935**

MNNQKQKPTLSGQRFKTRKRDEKERFDPTQFQDCIIQGLTETGTDLEAVAKFLDASGAKLDYRRYAETLFDILV  
AGGMLAPGGTLADDMMRDVCVFAAQEDLETMQAFAQVFNKLIRRYKYLEKGFEDVKKLLFLKGFSESERNKL  
AMLTGVLLANGTLNASILNSLYNENLVKEGVSAFAVKLFKSWINEKDINAVAASLRKVSMDNRLMELFPANKQS  
VEHFTKYFTEAGLKEELSEYVRNQQTIGARKELQKELQEQMSRGDPFKDIILYVKEEMKKNNIPEPVVIGIVWSSV  
MSTVEWNKKEELVAEQAIKHLKQYSPLLAFTTQGQSELTLLLKIQEYCYDNIHFMKAFQKIVVLFYKAEVLSEE  
PILKWYKDAHVAKGKSVFLEQMKKFVEWLKNAEEEESESEAEED

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**FIGURE 936**

ACGCAGAGAAGTTTCCGGGACTGAACTTGAACCTTACCTGATTTCTGTATGTTGTCACTTTGCGTACGCCAGT  
CCCCACGACAGTCCGGTTTGTAGATTCCCTGATCTGCAATTCTTCCCGTTTCTTCATGGATTTGAAGGCTCTCCT  
TTCTTCCCTTGAATGACTTTGCATCCCTCTCGTTTGGCTGAGAGTTGGGACAATGTTGGATTACTGGTGGAACCAAG  
CCCACCACATACTGTAAATACACTCTTCCCTGACCAATGACCTGACTGAGGAAGTGATGGAGGAGGTGCTGCAAAA  
GAAGGCAGACCTCATTTCTCTCCTACCATCCGCCTATCTTCCGACCCATGAAGCGCATAACCTGGAACACATGGAA  
GGAGCGCCTGGTGATCCGGGCTCTGGGAGAACAGAGTCGGTATCTACTCTCCTCATAACAGCCTATGATGCTGCGCC  
CCAGGGCGTCAACAACCTGGTTGGCTAAAGGGCTTGGAGCTTGTACCTCCAGGCCCATACATCCTTCCAAAGCTCC  
CAACTACCCTACAGAGGGAAACCACCGAGTAGAATTCAACGTTAACCTACACCCAAGACCTGGACAAAGTCATGTC  
TGCAGTGAAAGGAATTGACGGTGTCTTCTGTCACTTCTTTTTCTGCTAGGACTGGTAATGAGGAACAAACACGGAT  
TAATCTGAATTGTACTCAGAAGGCTTTGATGCAGGTGGTAGATTTTCTTTCCCGGAACAAACAACTTTATCAGAA  
GACGGAATTCTGTCACTGGAGAAGCCTTTGCTTCTACATACTGGAATGGGACGGTTATGCACACTGGATGAATC  
TGTCTCCCTGGCAACCATGATTGATCGAATAAAAAGACACCTAAAACCTATCTCATATTGCTTAGCCCTTGGGGT  
GGGGAGAACCTTAGAGTCTCAAGTCAAAGTCGTGGCCCTGTGTGCTGGTTCTGGGAGCAGCGTTCTGCAGGGTGT  
TGAGGCTGACCTTTACCTCACAGGTGAGATGTCCCATCATGATACTTTGGATGCTGCTTCCCAAGGAATAAATGT  
CATCCTCTGTGAACACAGCAACACTGAACGAGGCTTTCTTTCTGACCTTCGAGATATGCTGGATTCTCACTTGGA  
GAATAAGATAAATATTATCCTATCAGAGACTGACAGGGACCCTCTTCAGGTGGTATAATTGCAGAAACATCAGGA  
TAACACATTCTACAAATCAGCTGGATGCCAACTTAAATTTGTAACATGAGTCAGTGGGACTGGTGTGCTTCCAGA  
GAGTGTCTTCGAGGGTATCATCATTTCCGGTTTGTAAATCTTATTCACCAAATGTTCTATCGCTCGTAAGGTAAA  
ACTGTAATATAACTACCATATTAAATAACAAATGTTTATTATAAACTCTAGGAAAGATTGAATAAAATCTGTTTA  
CTTAACATTC

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**FIGURE 937**

MLSSCVRPVPTTVRFVDSLICNSSRSFMDLKALLSSLNDFASLSFAESWDNVGLLVEPSPPHTVNTLFLTNDLTE  
EVMEEVLQKKADLILSYHPPIFRPMKRITWNTWKERLVIRALENRVGIYSPHTAYDAAPQGVNNWLAKGLGACTS  
RPIHPSKAPNYPTTEGNHRVEFNVNYTQDLKVMASVKGIDGVSVTSFSARTGNEEQTRINLNCTQKALMQVVDFL  
SRNKQLYQKTEILSLEKPLLLHTGMGRCLTLDESVSLATMIDRIKRHLKLSHIRLALGVGRYLESQVKVVALCAG  
SGSSVLQGVEADLYLTGEMSHHDTLDAASQGINVILCEHSNTERGFLSDLRDMLDSHLENKINIILSETDRDPLQ  
VV

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**FIGURE 938**

CTCCTTTCTGCCCGTGGACGCCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCCTGCCGTCATGCTCTAAGTCA  
GAGTCTCCTAAAGAGCCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACCGATGAGAGC  
CTGAGGAGCCATTTTGAGCAACGGGGAACGCTCACAGACTGTGTGGTAATGAGAGATCCAAACACCAAGTGCTCC  
ACGGGCTTTGGGTTTGTACATATGCCACTGTGAAGGAGGTGGAGGCAGCTATGAATGCAAGGCCACAGAAGGTG  
GATGGAAGAGTCGTGGAACCAAGAGAGCTGTCTCGAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAACTGTG  
AAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTTGAACAGTATGGA  
AAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGGAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGAT  
GACCATGACTCCGTGGATAAGATTGTCATTGAGAAATACCACACTGTGAATGGCCACAACCTGTGAAGTTAGAAAA  
GCCCTGTCAAAGCAAGAGATGACTAGTGTCTCATCTAGCCAAAGAGGTGGAAGTGGTTCTGGAACCTTTGGTGGT  
GGTCTGTGGAGGTGGTTTCAGTGGGAATGACAACCTTTGGTCATGGAAGAACTTCAGTGGTCATGGTGGCTTTGGT  
GGCAGCCGTGGTGGTGGTGGATATGATGGCAGTGGGGATGGCTATAATGGATTGGTAATGATGGAAGCCATTTT  
GGAGGTGGTGGGAAGCTACAATGATTTTGGCAATTACAAAATCAGTCTTCAAATTTTGGACCCGTGAAGGGAGGA  
AATTTTGGAGGCAGAAAGCTCTGGCCCCATGGCGGTGGAGGCCAATACTTTGCAAAACCACGAACTAAGGTGGC  
TATGGCGGTTCCAGCAGTAGCAGTAGCTATGGCAGTGGCAGAAGATTTTAAATTAGGAAACAAAGCTTAGCAGGAG  
AGGAGAGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAACAGATTTGTGAACTCAGCCAAGCACAGTGGTGGCA  
GGGCCTAGCTGCTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAACTCGAGGACTGTAT  
TTGTGACTAATTGTATAACAGGTTATTTTAGTTTTCTGTTCTGTGGAAAGTGTAAGCATTCCAACAAAGGGTTTT  
AATGTAGATTTTTTTTTTTTGCACCCATGCTGTTGATTGCTAAATGTAATAGTCTGATCGTGACGCTGAATAAATG  
TCTTTTTTTTTTAATGTGCTGTGTAAAGTTAGTCTACTCTGAAGCCATCTTGGTAAATTTCCCCAACAGTGTGAAG  
TTAGAATTCCTTCAGGGTGATGCCAGGTTCTATTTGGAATTTATATACAACCTGCTTGGGTGGAGAAGCTATTGT  
CTTCGGAAACCTTGGTGTAGTTGAACTGATAGTTACTGTTGTGACCTGAAGTTCACCATTAAAGGGATTACCCA  
AGCAAAATCATGGAATTATTGGTTATAAAAGTGATTGTTGGCACATCCTATGCAATATATCTAAATTGAATAATG  
GTACCAGATAAAATTATAGATGGGAATGAAGCTTGTGTATCATCCATTATCATGTGTAATCAATAAACGATTTAA  
TTCTCTGGAA

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**FIGURE 939**

MSKSESPKEPEQLRKLF IGGLSFETTDESLRSHFEQRGTLTDCVVMRDPNTKCSTGFGFVTYATVKEVEAAMNAR  
PQKVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEEHHLRDYFEQYGKIEVIEIMTDRGSGKKRGFAF  
VTFDDHDSVDKIVIQKYHTVNGHNCEVRKALSKQEMTSASSSQGRSGSGNFGGGRGGGFSGNDNFGHGRNFSGH  
GGFGGSRGGGGYDGS GDGYNGFGNDGSHFGGGGSYNDFGNYKNQSSNFGPVGKGNFGGRSSGPYGGGGQYFAKPR  
NRWLWRFQQVAVAMAVAEDF

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**FIGURE 940**

GAGGCGTAGCGGAAGTTACTGCAGCCGCGGTGTTGTGCTGTGGGAAGGGAGAAGGATTTGTAAACCCCGGAGCG  
AGGTTCTGCTTACCCGAGGCCGCTGCTGTGCGGAGACCCCGGGTGAAGCCACCGTCATCATGTCTGACCAGGAG  
GCAAAACCTTCAACTGAGGACTTGGGGGATAAGAAGGAAGGTGAATATATTAAACTCAAAGTCATTGGACAGGAT  
AGCAGTGAGATTCACCTCAAAGTGAAAATGACAACACATCTCAAGAACTCAAAGAATCATACTGTCAAAGACAG  
GGTGTTCCAATGAATTCACCTCAGGTTTCTCTTTGAGGGTCAGAGAATTGCTGATAATCATACTCCAAAAGAACTG  
GGAATGGAGGAAGAAGATGTGATTGAAGTTTATCAGGAACAAACGGGGGGTCATTCAACAGTTTAGATATTCTTT  
TTATTTTTTTTCTTTCCCTCAATCCTTTTTTATTTTTAAAAATAGTTCTTTTGTAATGTGGTGTTCAAAACGGA  
ATTGTTATTCATTATTGTTTGTTCATTGTGCTGATTTTTGGTGATCAAGCCTCAGTCCCCTTCATATTACC

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**FIGURE 941**

ATGTTGGTGCTGTTTGAACGTCGTGGGTTACGCCATCTTTAAGGTTCTAAATGAGAAGAACTTCAAGAGGTT  
GATAGTTTATGGAAAGAAATTTGAAACTCCAGAGAAAGCAAACAAAATAGTAAAGCTAAAACATTTTGAGAAATTT  
CAGGATACAGCAGAAGCATTAGCAGCATTACAGCTCTGATGGAGGGCAAATCAATAAGCAGCTGAAAAAAGTT  
CTGAAGAAAATAGTAAAAAGAGCCCATGAACCGCTGGCAGTAGCTGATGCTAAACTAGGAGGGGTCATAAAGGAA  
AAGCTGAATCTCAGTTGTATCCATAGTCCTGTTGTTAATGAACCTTATGAGAGGAATTCGTTACAAAATGGATGGA  
TTAATCCCTGGGGTAGAACCACGTGAAATGGCAGCTATGTGTCTTGGATTGGCTCACAGCCTGTCTCGATATAGA  
TTGAAGTTTAGCGCTGATAAAGTAGACACAATGATTGTTTCAGGCAATTTCCCTGTTAGATGACTTGGATAAAGAA  
CTAAACAACCTACATTATGCGATGTAGAGAATGGTATGGCTGGCATTTCCTTGAATTAGGAAAAATTATTTTCAGAT  
AATTTAACATACTGCAAGTGTGTTACAGAAAGTTGGCGATAGGAAGAACTATGCCTCTGCCAAGCTTTCTGAGTTG  
CTGCCAGAAGAAGTTGAAGCAGAAGTGAAAGCAGCTGCAGAGATATCAATGGGAACAGAGGTTTCAGAAGAAGAT  
ATTTGCAATATTCTGCATCTTTGCACCCAGGTGATTGAAATCTCTGAATATCGAACCCAGCTCTATGAATATCTA  
CAAAATCGAATGATGGCCATTGCACCCAATGTTACAGTCATGGTTGGGGAATTAGTTGGAGCACGGCTTATTGCT  
CATGCAGGTTCTCTTTTAAATTTGGCCAAGCATGCAGCTTCTACCGTTTCAGATTCTTGGAGCTGAAAAGGCACTT  
TTCAGAGCCCTCAAATCTAGACGGGATACCCCTAAGTATGGTCTCATTATCATGCTTCACTCGTGGGCCAGACA  
AGTCCCAAACACAAAGGAAAGATTTCTCGAATGCTGGCAGCCAAAACCGTTTTGGCTATCCGTTATGATGCTTTT  
GGTGAGGATTCAAGTTCTGCAATGGGAGTTGAGAACAGAGCCAAATTAGAGGCCAGGTTGAGAACTTTGGAAGAC  
AGAGGGATAAGAAAAATAAGTGGAACAGGAAAAGCATTAGCAAAAACAGAAAAATATGAACACAAAAGTGAAGTG  
AAGACTTACGATCCTTCTGGTGACTCCACACTTCCAACCTGCTCTAAAAAACGCAAAATAGAACAGGTAGATAAA  
GAGGATGAAATTACTGAAAAGAAAGCCAAAAAAGCCAAGATTAAAGTTAAAGTTGAAGAAGAGGAAGAAGAAAA  
GTGGCAGAAGAAGAAGAAACATCTGTGAAGAAGAAGAAAAGGGGTAAAAAGAAACACATTAAAGGAAGAACCA  
CTTTCTGAGGAAGAACCATGTACCAGCACAGCAATTGCTAGTCCAGAGAAAAAGAAGAAAAAAGAAAAAAGAGA  
GAGAACGAGGATTAA



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**FIGURE 942**

GGAGGCCAAGGTGCAACTTTCTTCGGTCGTCCCGAATCCGGGTTTCATCCAACACCAGCCGCCTCCACCATGCGC  
CGAAGTTCGACGGTGCCACTTCTGCCCTGGCCCCCAAGATCGGCCCCCTGGGTCTGTCTCCAAAAAAGGTTGGTG  
ATGACATTGCCAAGGCAACGGGTGACTGGAAGGGCCTGAGGATTACAGTGAAACTGACCATTGAGAACAGACAGG  
CCCAGATTGAGGTGGTGCCTTCTGCCTCTGCCCTGATCATCAAAGCCCTCAAGGAACCACCAAGAGACAGAAAGA  
AACAGAAAAACATTAAACACAGTGGGAATATCACTTTTGATGAGATCGTCAACATTGTTTCGACAGATGCGGCACC  
GATCCTTAGCCAGAGAACTCTCTGGAACCATTAAAGAGATCCTGGGGACTGCCCAGTCTGTGGGCTGTAATGTTG  
ATGGCCGCCATCCTCATGACATCATCGATGACATCAACAGTGGTGCTGTGGAATGCCCAGCCAGTTAAGCACAAA  
GGAAAATATTTCAATAAAGGATCATTGACAAC TG

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**FIGURE 943**

MPPKFDGATSALAPKIGPLGLSPKKVGDDIAKATGDWKGLRITVKLTIQNRQAQIEVVPSASALIIKALKEPPRD  
RKKQKNIKHSGNITFDEIVNIVRQMRHRSLARELSGTIKEILGTAQSVGCNVDGRHPHDIIDDINSGAVECPAS

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**FIGURE 944**

ATGGAAGATTTGATGGACATGGACATGAGCCTCCTGAGGCCCCAGAACTATCTTTTCGGTTGTGAACTAAAGGCC  
GACAAAGATGATCACTTTAAGGTGGATAATGATGAAAATGAGACCATCAGTTTAGGGGCTGGTGCAAGGGATGAA  
TTGCACATTGTTGAAGCAGAGGCCATGAATGATGAAGGCAGTCCAATTAAAGTCACACTGGCAACTTTGAAAATG  
TCTGTACAGCCAACTGCTTCCCTTGGGGGCTTTGAAATCACACCACCAGTGGTCTTACAGTTGAAGTGTGGTTCA  
GGGCCAGTGCATATTAGTAGACAGTGCTTAGTAGCTGTGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGAGGAG  
GATGTGAACCTCTTAAGCATATCTGGAAAGCGGTCTGCCTCTGGAGGTGGTAGCAAGGCGCCAGCTACCGCGCC  
CACTGGTCAGAAGTGTGGCCAGCGTCTATGCAGGCCCTGGGAGCTCAGGGTGGCTTGGGGTCCAGGAGCATGGCC  
GCAGGTATGGCCGGGGGTCTGGCAGGAATGGGAGGCATCCAGAACGAGAAGGAGACCATGCAAAGCCTGAATGAC  
CGCCTGGCCTCCTACCTGGACAGAGTGAGGAGCCTGGAGATGGGAACTGGAAGCTGGAGAGCAAAATCTGGGAG  
CACCTGGAGAAGAAGGGACCCAGGTCAGAGACTGGGGCCACTACTTCAAGACCATCGAGGAGGACCTGACTCAG  
ATCTTCACAAGTACTGTGGACAATACCTGCATCATTCTGCAGATCGACAATGCCCATCTTGCTGCTGATGACTTT  
AGAGTCAAGTATGAGACAGAGCCGGCCACGTGCCAGTCTGTGGAGAACGACATCCATGGGCTCCACAAGGTCATT  
GATGACACCAGTGTCACTCAGCTGCAGCTAGAGACAGAGATCGAGGCTCTCAAGGAGGAGCTGCTCTTCCTGAAG  
AAGAACCACGAAGAGGAAGTAAAAGGCCTACAAGCCAGATTGCCAGCTCTGTTGACCATGGAGGCCTTGGAGAT  
CGACCTGGACTGGATGAAAAATCTGGAGGCCAGCTTGGAGAACAGCCTGAAGGGGGGTGGAGGCCTGCTACACC  
CTGCAGATGGAACAACTCAATGGGATCCTGCTGCACCTGGAGTCAGAGCTGGCACAGACCTGGGCAGAGGGACAG  
GGCCAGGCCCAGGAGTACCAGGCCCTGCCAAACATCAAGCAGCAACTCCACGCAAACCATCCAAAAGACTCCAC  
CTGCCAACAGTGGATGGCAAAGTGGTGTCTGAGACCAATGACACCAAAGTTCTGAGACATTAA

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**FIGURE 945**

MEDLMDMDMSLLRPQNYLFGCELKADKDDHFKVDNDENETISLGAGARDELHIVEAEAMNDEGSPIKVTLATLKM  
SVQPTASLGGFEITPPVVLQLKCGSGPVHISRQCLVAVEEDAEESEDEEEEDVNLLSISGKRSASGGGSKAPSYRA  
HWSEVWPASMQALGAQGGLGSRSMAGGLAGMGGIQNEKETMQSLNDRLASYLDRVRSLEMGNWKLESKIWE  
HLEKKGPQVRDWGHYFKTIEEDLTQIFTSTVDNTCIIILQIDNAHLAADD FRVKYETEPATCQSVENDIHGLHKVI  
DDTSVTQLQLETEIEALKEELLFLKKNHEEEVKGLQAQIASSVDHGGLGDRPGLDEKSGGQLGEQPEGGVEACYT  
LQMEQLNGILLHLESELAQTWAEQGQQAQEQALPNIKQQLHANHPKDSHLPTVDGKVVSETNDTKVLRH

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**FIGURE 946**

GACAGTTT TAGCAGAACAGCCTCCGCGGCTCCGGGGAGAAGCAATATGTTAAGGATACCTGTAAGAAAGGCCTTAG  
TAGGCCTTTCTAAGTCTCCTAAAGGATGTGTTGGAACAACTGCCACAGCAGCAAGCAACTTGATTGAAGTATTTG  
TTGATGGTCAGTCTGTCTATGGTGGAAACCGGGAACGACCGTCTCCAAGCTTGTGAGAAGGTTGGCATGCAGATCC  
CTCGATTCTGTTATCATGAAAGGTTGTCTGTTGCTGGAACTGCAGGATGTGCCTTGTTGAAATTGAGAAAAGCCC  
CTAAGGTTGTAGCTGCTTGTGCCATGCCAGTAATGAAGGGTTGGAATATCCTAACAACTCAGAAAAATCCAAAA  
AAGCCAGGGAAGGTGTGATGGAGTTCTTATTAGCAAATCACCCATTGGACTGTCCTATTTGTGACCAGGGAGGTG  
AATGTGATCTGCAGGACCAGTCCATGATGTTTGGAAATGATAGGAGCCGATTTTTAGAGGGGAAGCGTGCTGTGG  
AAGACAAGAACATTGGGCCATTGGTAAAGACCATCATGACAAGATGTATACAGTGTACTCGCTGCATCAGGTTTG  
CAAGTGAGATTGCAGGAGTAGATGATTTGGGAACAACAGGCAGAGGAAATGATATGCAAGTTGGCACATACATTG  
AAAAGATGTTTATGTCTGAACTGTCTGGGAATATCATTGATATCTGCCCTGTAGGTGCCCTAACCTCTAAGCCCT  
ATGCCTTTTACTGCCCCGCCCTTGGGAAACAAGAAAGACAGAATCCATTGATGTAATGGATGCGGTTGGAAGTAATA  
TTGTGGTTAGCACAAGAACTGGAGAAGTGTAGGATTTTGGCACGTATGCATGAGGACATCAATGAAGAGTGGAA  
TCTCTGATAAAACCAGATTTGCCTATGATGGGCTAAAACGTCAAAGACTTACCGAGCCAATGGTCAGAAATGAAA  
AAGGGCTTTTAACTTATACTTCTTGGGAGGATGCGCTCTCTCGCGTAGCTGGAATGTTGCAGAGTTTTCAAGGCA  
AAGATGTGGCAGCAATTGCAGGTGGCTTGGTGGATGCTGAAGCCCTGGTAGCTCTCAAAGATTTGCTTAATAGAG  
TGGACTCTGCACCTTATGCACTGAAGAGGTCTTCCCCACTGCAGGAGCTGGCACAGATTTGCGTTCCAATTATC  
TTCTTAATACTACAATTGCTGGTGTGGAAGAGGCAGATGTTGTTCTTCTGGTTGGTACAAACCCACGTTTTGAGG  
CACCCTGTTTTAATGCTAGAATTGCAAAGAGCTGGCTGCATAATGACTTAAAAGTGGCCCTTATAGGCAGTCCAG  
TGGACCTCACTTACACATATGACCACCTGGGAGACTCCCCCAAATTCTTCAAGACATTGCTTCGGGAAGCCATC  
CATTTAGCCAGGTCCTAAAGGAAGCTAAAAAACCATGGTGGTTTTAGGCAGTTCTGCACTCCAAAGAAATGATG  
GAGCAGCAATTCTTGCAGCTGTTTCTAGCATTGCACAAAAGATTCCGATGACTAGTGGTGTACTGGTGATTGGA  
AAGTTATGAATATCCTTCATAGGATTGCAAGTCAAGTAGCTGCTTTGGACCTTGGCTATAAGCCTGGGGTGGAA  
CAATTGGAAGAACCCTCCCAAGGTGCTGTTTCTCCTGGGAGCAGATGGAGGTTGTATCACACGACAGGATTTGC  
CAAAGGATTGTTTCATTATTTATCAAGGACATCATGGTGATGTTGGGGCTCCCATAGCTGATGTTATTCTCCAG  
GAGCTGCTTACACAGAGAAGTCTGCTACATATGTCAACACTGAGGGTAGAGCTCAGCAGACTAAGGTAGCAGTGA  
CACCTCCTGGCTTGGCAAGAGAAGACTGGAATAATTATAAGAGCACTCTCTGAGATTGCTGGAATGACTCTTCCAT  
ATGATACTCTGGATCAAGTAAGGAACAGATTGGAAGAAGTCTCTCCTAATCTTGTTTCGATATGATGATATTGAAG  
GGGCTAATTACTTCCAGCAAGCAAATGAGCTCTCAAAGCTAGTGAACCAGCAGCTTCTTGCTGACCCACTTGTTT  
CACCTCAGCTAACTATAAAAAGACTTCTACATGACAGATTCAATTAGCAGAGCCTCACAGACAATGGCCAAATGTG  
TCAAAGCTGTACAGAGGGTGGCCAGGCAGTAGAGGAACCATCCATATGCTGAAGCTTCTACTAGGATCCAGTT  
TTGCCGAGATAATTAATGGACAACCTGTAGTGCAGTGATCCTTTACAGGTTTATTTCTTTGTAAAAAAAATAAT  
AATAATTTGAATCATGTAATATTTAAGGTTATACTATGCCTATTTGAAAATGATATTAGTTATCACTTTGCAGT  
TTGAAAACATGTATTGTGTGTAAAGGTTAAATAACAAACTATGCAGATGCTCTTAAAAGCATTGATAACCTTT  
GTGACGAACATAAAGAGATCCTTAAATT

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**FIGURE 947**

MLRIPVRKALVGLSKSPKGCVRTTATAASNLIIEVFVDGQSVMEPGTTVLQACEKVGMQIPRFCYHERLSVAGNC  
RMCLVEIEKAPKVVAACAMPVMKGWNILTNSEKSKKAREGVMEFLLANHPLDCPICDQGGECDLQDQSMFNGDR  
SRFLEGKRAVEDKNIGPLVKTIMTRCIQCTRCIRFASEIAGVDDLGTTRGRNDMQVGTYIEKMFMSSELSGNIIDI  
CPVGALTSKPYAFTARPWETRKTESIDVMDAVGSNIVVSTRTGEVMRILPRMHEDINEEWISDKTRFAYDGLKRQ  
RLTEPMVRNEKGLLTYTSWEDALSRVAGMLQSFQGDVAAIAGGLVDAEALVALKDLLNRVDSDTLCTEEVFPTA  
GAGTDLRSNYLLNTTIAGVEEADVLLVG TNPRFEAPLFNARIRKSWLHNDLKVALIGSPVDLTYTYDHLGDSPK  
ILQDIASGSHPFSSQVLKEAKKPMVVLGSSALQRNDGAAILAAVSSIAQKIRMTSGVTGDWKVMNILHRIASQVAA  
LDLGYKPGVEAIRKNPPKVLFLLGADGGCITRQDLPKDCFIIYQGHGHDVGAPIADVILPGAAYTEKSATYVNT  
GRAQQTQKVAVTPPGLAREDWKIIRALSEIAGMTLPYDTLDQVRNRLEEVSPNLVRYDDIEGANYFQQANELSKLV  
NQQLLADPLVPPQLTIKDFYMTDSISRASQTMACVKAVTEGAQAVEEPSIC

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**FIGURE 948**

GCCTCGAGGCGGGCGTCTTCGGTCATCTCCGGCGCTTCTAGGGCTGGTTCCCGTCATCTTCGGGAGCCGTGGAGC  
TCTCGGATACAGCCGACACCATGGGTTTCGGAGACCTGAAAAGCCCTGCCGGCCTCCAGGTGCTCAACGATTACC  
TGGCGGACAAGAGCTACATCGAGGGGTATGTGCCATCACAAGCAGATGTGGCAGTATTTGAAGCCGTGTCCAGCC  
CACCGCCTGCCGACTTGTGTCATGCCCTACGTTGGTATAATCACATCAAGTCTTACGAAAAGGAAAAGGCCAGCC  
TGCCAGGAGTGAAGAAAGCTTTGGGCAAATATGGTCCTGCCGATGTGGAAGACACTACAGGAAGTGGAGCTACAG  
ATAGTAAAGATGATGATGACATTGACCTCTTTGGATCTGATGATGAGGAGGAAAGTGAAGAAGCAAAGAGGCTAA  
GGGAAGAACGTCTTGACACAATATGAATCAAAGAAAGCCAAAAAACCTGCACTTGTTGCCAAGTCTTCCATCTTAC  
TAGATGTGAAACCTTGGGATGATGAGACAGATATGGCGAAATTAGAGGAGTGCCTCAGAAGCATTCAAGCAGACG  
GCTTAGTCTGGGGCTCATCTAAACTAGTTCCAGTGGGATACGGAATTAAGAACTTCAAATACAGTGTGTAGTTG  
AAGATGATAAAGTTGGAACAGATATGCTGGAGGAGCAGATCACTGCTTTTGAGGACTATGTGCAGTCCATGGATG  
TGGCTGCTTTCAACAAGATCTTAAAATCCATCCTGGATCATGGCATTTAAATAAAAGATTGAAAGATTAAAA

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**FIGURE 949**

MGFGDLKSPAGLQVLNDYLADKSYIEGYVPSQADVAVFEAVSSPPPADLCHALRWYNHIKSYEKEKASLPGVKKA  
LGKYGPADVEDTTGSGATDSKDDDDIDLFGSDDEEESEEAERLREERLAQYESKKAKKPALVAKSSILLDVKPWD  
DETDMAKLEECVRSIQADGLVWGSSKLVPVGYGIKKLQIQCVVEDDKVGTDMLEEQITAFEDYVQSM DVAAFNKI



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**FIGURE 950**

GGACAATTTGTGGGCCATTTAATTCAGGGCCCCCAATTCGTACGTGGAGAAGTGGGAATGCAAAAGTACTTTGAC  
CTTTAACCTTCGGTCCGGCGCGGTGGAGGGAAACGCCTCCGTCTCTATATAAGGAATTTCCGGTCTCTTCGGGT  
CCTTTTTCTCTCTTCAGCGTGGGGCGCCACAATTTGCGCGCTCTCTTTCTGCTGCTCCCCAGCTCTCGGATAC  
AGCCGACACCATGGGTTTCGGAGACCTGAAAAGCCCTGCCGGCCTCCAGGTGCTCAACGATTACCTGGCGGACAA  
GAGCTACATCGAGGGGTATGTGCCATCACAAGCAGATGTGGCAGTATTTGAAGCCGTGTCCAGCCCACCGCCTGC  
CGACTTGTGTCATGCCCTACGTTGGTATAATCACATCAAGTCTTACGAAAAGGAAAAGGCCAGCCTGCCAGGAGT  
GAAGAAAGCTTTGGGCAAATATGGTCCTGCCGATGTGGAAGACACTACAGGAAGTGGAGCTACAGATAGTAAAGA  
TGATGATGACATTGACCTCTTTGGATCTGATGATGAGGAGGAAAGTGAAGAAGCAAAGAGGCTAAGGGAAGAACG  
TCTTGACAAATATGAATCAAAGAAAGCCAAAAAACCTGCACTTGTTGCCAAGTCTTCCATCTTACTAGATGTGAA  
ACCTTGGGATGATGAGACAGATATGGCGAAATTAGAGGAGTGCGTCAGAAGCATTCAAGCAGACGGCTTAGTCTG  
GGGCTCATCTAAACTAGTTCCAGTGGGATACGGAATTAAGAACTTCAAATACAGTGTGTAGTTGAAGATGATAA  
AGTTGGAACAGATATGCTGGAGGAGCAGATCACTGCTTTTGAGGACTATGTGCAGTCCATGGATGTGGCTGCTTT  
CAACAAGATCTAAAATCCATCCTGGATCATGGCATTAAATAAAAGATTGAAAGATTAAAA

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**FIGURE 951**

MGFGDLKSPAGLQVLNDYLADKSYIEGYVPSQADVAVFEAVSSPPPADLCHALRWYNHIKSYEKEKASLPGVKKA  
LGKYGPADVEDTTGSGATDSKDDDDIDLFGSDDEEESEEAkRLREERLAQYESKKAKKPALVAKSSILLDVKPWD  
DETDMAKLEECVRSIQADGLVWGSSKLVPVGYGIKKLQIQCVVEDDKVGTDMLEEQITAFEDYVQSM DVAAFNKI

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**FIGURE 952**

GAAGGGGCGGGGCCAAAACCTGCGCGCCCAATCGGGGTGACGCTCTAGCCTTGCCGGGGACTCGTGGGTAACTTGC  
TTTTGGGAGCCAGCGGTATGGCGTCGGGCTGCAAGATTGGCCCGTCCATCCTCAACAGCGACCTGGCCAATTTAG  
GGCCCGAGTGCTCCGGATGCTAGACTCTGGGGCCGATTATCTGCACCTGGACGTAATGGACGGGCATTTTGTTC  
CAACATCACCTTTGGTACCCTGTGGTAGAAAGCCTTCGAAAGCAGCTAGGCCAGGACCCTTTCTTTGACATGCA  
CATGATGGTGTCCAAGCCAGAACAGTGGGTAAAGCCAATGGCTGTAGCAGGAGCCAATCAGTACACCTTTTCATCT  
CGAGGCTACTGAGAACCCAGGGGCTTTGATTAAAGACATTGGGAGAAATGGGATGAAGGTTGGCCTTGCCATCAA  
ACCAGGAACCTCAGTTGAGTATTTGGCACCATGGGCTAATCAGATAGATATGGCCTTGTTATGACAGTGAAC  
GGGTTTGGAGGGCAGAAATTCATGGAAGATATGATGCCAAAGGTTCACTGGTTGAGGACCCAGTTCCCATCTTT  
GGATATAGAGGTCGATGGTGGAGTAGGTCCTGACACTGTCCATAAATGTGCAGAGGCAGGAGCTAACATGATTGT  
GTCTGGCAGTGCTATTATGAGGAGTGAAGACCCAGATCTGTGATCAATCTATTAAGAAATGTTTGCTCAGAAGC  
TGCTCAGAAACGTTCTCTTGATCGGTGAACCCATAAGGAGCCCAGTGTTCTGTTTCATGAAATCTCCCTTTTACT  
GGAAACAGGAATATTGACTACCAAATCACAATGCAATTGAAGCCGTACTGCTTTTTTGAGCAGTTATTCATTCC  
AGTGATTAAACCTGATTGTGAGTAACTGTTTCTAAGAGGTCAGAAATGGTGTGTATAACTACATTTTATGATGC  
AATTTATTGATTAGTGAGTAAGATACTGTTTTTATTGAGAGATTTGATTTTTATAAAGTAAAAATACGGCTGCAT  
TAGGGTTACAAAACAGAAAAGTGCTTAAATGTCTAAGGAGGGCATATTAGCTACACTACAAAACAAATTTTGTCT  
GTACTTCTGAAAAGATTTTGTGTTTCTCAGCTGTTTTCCAAAAGCAAAGGAAGTCTTTATGGTTTTTTTCTAT  
TTCATGTTATTGTGATTTGTTTATAAGTTTGGGTGGGGTGCATACCATATTCTTGGTTCTTAAATCTATCACTT  
TTCACCTTACACTTGATGTGTGAAAACATAAAAAACAATGIGTGAAAACCCAGGGTTCTAAAATACAAGCATAGA  
TTTTATCAGGGTGTTTTGTCAAAGCAGGTTATTTCAGTGATTCCTCCCCACCATTCTTAAGAACGTTAAATAATGC  
TGTGTGTAGTCTGAGTAGAAAGGAAAAAGTAAACCTCTGTTTGGAGGTAATATTGGGTTGAATTCTGACTG  
CCCCTTTCTAGCTGGACCTTTAACAAATCACCCAATCTTTTTTGTGTTTCTCTAAAGTCATTTATACATTAAATG  
TAATTATAGCAACTGTGGGGTTCTGTTGAGAATTAAGAGCTAACACTATATATGTAAAGTTTCCAGTACTAGTCC  
CAGAAATTTAGAAATATGCTCAACACAAAGTAAACAGCATTATATAAGTTTATATTTTTGTGAGTTATAAAGTACTT  
TGATATATTCTCATTAAATCTGTAAATCACCTCTATAAGTAAGTGGAATAATAAAGCAGATATTTTTGTCCCCA  
TTTAAAAAATGAAGAAATTAATGCTTAATAGGGTGGTACCCTGGAAAGGATCTGGGAAGTGGTAGAATTTCTGGT  
CTGTACTTTTACAAATGGAGCCCTTGGGAGGTGGGTTAGGTAAAAGAAGCTTTTTACTTAACGTTGTCTTATTTT  
CAGTCTAATTTTACGCTGTAGCAGAACCAGATGGCTGAGAAAATTCTGGAACATATGGATCTTGACCCCAAGGATA  
TATTATTTTATTCCAAGAAAGATCAGGTAGGCGAAAAGATGACAGGATACAGAGTCAATCCATAAACTAAATATT  
TATAACTGTTCTGAATTATACAGAGTCTAAAAATATGTGTGAGTACTTCATTCTGTAAATACTCTTGCTGTGT  
TATAAATATGGCAAGAAATAAACATGACCAATATCAATAGACTTCTTGAGGCTACTATAAGTTTTGAGAAATAAG  
GTTCAAAAAATAAGAATGCTAACACTTAAGCACAGACTAGAGCTTGCTTGGGTTTCTTCTGCAATTACAAGGTAA  
AAATTTGTTAATGTTTGTGTTTTTATTGAGCTTGGGAAAGCTTTGTGCCATGAATACGTCGCATTTAATAACAAGCA  
ACACACGGCATATAGAAATAACTTTAATTAAAAACTTACATAGAAGATTATAATATCAGACGTGACAAAGATTT  
GAGTTTATTTGCCTGGACAACCTGGGTTTGTCTGGCTTTTGTGTTTCTTTTTCTTTAAAAATAAATGTACAGTAA  
ACTAC

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**FIGURE 953**

MLDSGADYLHLDVMDGHFVPNITFGHPVVESLRKQLGQDPFFDMHMMVSKPEQWVKPMAVAGANQYTFHLEATEN  
PGALIKDIRENGMKVGLAIKPGTSVEYLAPWANQIDMALVMTVEPGFGGQKFMEDMMPKVHWRRTQFPSLDIEVD  
GGVGPDTVHKCAEAGANMIVSGSAIMRSEDPRSVINLLRNVCSEAAQKRSLDR

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**FIGURE 954A**

GAAGAGCAAGAGGCAGGCTCAGCAAATGGTTTCAGCCCCAGTCCCCGGTGGCTGTCTCAGTCAAAGCAAGCCCCGGTTG  
TTATGACAATGGAAAACACTATCAGATAAATCAACAGTGGGAGCGGACCTACCTAGGCAATGCGTTGGTTTGTAC  
TTGTTATGGAGGAAGCCGAGGTTTTAACTGCGAGAGTAAACCTGAAGCTGAAGAGACTTGCTTTGACAAGTACAC  
TGGGAACACTTACCGAGTGGGTGACACTTATGAGCGTCTAAAGACTCCATGATCTGGGACTGTACCTGCATCGG  
GGCTGGGCGAGGGAGAATAAGCTGTACCATCGCAAACCGCTGCCATGAAGGGGGTCAGTCCACAAAGATTGGTG  
CACCTGGAGGAGACCACATGAGACTGGTGGTTACATGTTAGAGTGTGTGTGTCTTGGTAATGGAAAAGGAGAATG  
GACCTGCAAGCCCATAGCTGAGAAGTGTGTTGATCATGCTGCTGGGACTTCCTATGTGGTTCGGAGAAACGTGGGA  
GAAGCCCTACCAAGGCTGGATGATGGTAGATTGTACTTGGCTGGGAGAAGGCAGCGGACGCATCACTTGCACCTC  
TAGAAATAGATGCAACGATCAGGACACAAGGACATCCTATAGAATTGGAGACACCTGGAGCAAGAAGGATAATCG  
AGGAAACCTGCTCCAGTGCATCTGCACAGGCAACGGCCGAGGAGAGTGGAAAGTGTGAGAGGCACACCTCTGTGCA  
GACCACATCGAGCGGATCTGGCCCCCTTACCGATGTTCTGTGAGCTGTTTACCAACCGCAGCCTCACCCCCAGCC  
TCCTCCCTATGGCCACTGTGTCTACAGACAGTGGTGTGGTCTACTCTGTGGGGATGCAGTGGCTGAAGACACAAGG  
AAATAAGCAAATGCTTTGCACGTGCCTGGGCAACGGAGTCAGCTGCCAAGAGACAGCTGTAACCCAGACTTACGG  
TGGCAACTCAAATGGAGAGCCATGTGTCTTACCATTACCTACAATGGCAGGACGTTCTACTCCTGCACCACAGA  
AGGGCGACAGGACGGACATCTTTGGTGCAGCACAACTTCGAATTATGAGCAGGACCAGAAATACTCTTTCTGCAC  
AGACCACACTGTTTTGGTTCAGACTCGAGGAGGAAATTCGAATGGTGCCTTGTGCCACTTCCCCTTCTTATACAA  
CAACCACAATTACACTGATTGCACCTCTGAGGGCAGAAGAGACAACATGAAGTGGTGTGGGACCACACAGAACTA  
TGATGCCGACCAGAAAGTTTGGGTTCTGCCCATGGCTGCCACGAGGAAATCTGCACAACCAATGAAGGGTTCAT  
GTACCGCATTGGAGATCAGTGGGATAAGCAGCATGACATGGGTTCATGATGAGGTGCACGTGTGTTGGGAATGG  
TCGTGGGGAATGGACATGCATTGCCTACTCGCAGCTTCGAGATCAGTGCATTGTTGATGACATCACTTACAATGT  
GAACGACACATTCCACAAGCGTCATGAAGAGGGGCACATGCTGAAGTGTACATGCTTCGGTTCAGGGTCGGGGCAG  
GTGGAAGTGTGATCCCCGTCGACCAATGCCAGGATTTCAGAGACTGGGACGTTTTATCAAATTGGAGATTCATGGGA  
GAAGTATGTGCATGGTGTGATACAGTGTCTACTGCTATGGCCGTGGCATTGGGGAGTGGCATTGCCAACCTTT  
ACAGACCTATCCAAGCTCAAGTGGTCTGTGCAAGTATTTATCACTGAGACTCCGAGTCAGCCCAACTCCCACCC  
CATCCAGTGGAAATGCACCACAGCCATCTCACATTTCCAAGTACATTCTCAGGTGGAGACCTAAAAATTCTGTAGG  
CCGTTGGAAGGAAGCTACCATACCAGGCCACTTAACTCCTACACCATCAAAGGCCTGAAGCCTGGTGTGGTATA  
CGAGGGCCAGCTCATCAGCATCCAGCAGTACGGCCACCAAGAAGTGAAGTTCGCTTTGACTTCACCACCACAGCAC  
CAGCACACCTGTGACCAGCAACACCGTGACAGGAGAGACGACTCCCTTTTCTCCTCTTGTGGCCACTTCTGAATC  
TGTGACCGAAATCAGACCCAGTAGCTTTGTGGTCTCCTGGGTCTCAGCTTCCGACACCGTGTGCGGATTCCGGGT  
GGAATATGAGCTGAGTGAAGGAGGAGATGAGCCACAGTACCTGGATCTTCCAAGCACAGCCACTTCTGTGAACAT  
CCCTGACCTGCTTCTGCGCGAAAATACATTGTAAATGTCTATCAGATATCTGAGGATGGGGAGCAGAGTTTGAT  
CCTGTCTACTTCACAAACAACAGCGCTGATGCCCCCTCTGACACGACTGTGGACCAAGTTGATGACACCTCAAT  
TGTTGTTGCTGAGAGCAGACCCAGGCTCCCATCAGAGGTACAGAATAGTCTATTTCGCCATCAGTAGAAGGTAG  
CAGCACAGAACTCAACCTTCTGAACTGCAAACTCCGTACCCCTCAGTGAAGTTCGCAACCTGGTGTTCAGTATAA  
CATCACTATCTATGCTGTGGAAGAAAATCAAGAAAGTACACCTGTTGTTCATTCAACAAGAAACCACTGGCACCCC  
ACGCTCAGATACAGTGCCTCTCCCAGGGACCTGCAGTTTGTGGAAGTGACAGACGTGAAGGTCACCATCATGTG  
GACACCGCCTGAGAGTGCAGTGACCGGCTACCGTGTGGATGTGATCCCCGTCAACCTGCCTGGCGAGCACGGGCA  
GAGGCTGCCCATCAGCAGGAACACCTTTGCAGAAGTACCGGGCTGTCCCCTGGGGTCACCTATTACTTCAAAGT  
CTTTGCACTGAGCCATGGGAGGGAGAGCAAGCCTCTGACTGCTCAACAGACAACCAAACTGGATGCTCCCACTAA  
CCTCCAGTTTGTCAATGAACTGATTCTACTGTCTGCTGGTGTGATGGACTCCACCTCGGGCCAGATAACAGGATA  
CCGACTGACCGTGGGCCTTACCCGAAGAGGACAGCCAGGAGTACAATGTGGGTCCCTCTGTCTCCAAGTACCC  
ACTGAGGAATCTGCAGCCTGCATCTGAGTACACCGTATCCCTCGTGGCCATAAAGGGCAACCAAGAGAGCCCCAA  
AGCCACTGGAGTCTTTACCACACTGCAGCCTGGGAGCTCTATTCCACCTTACAACACCGAGGTGACTGAGACCAC  
CATTGTGATCACATGGACGCCTGCTCCAAGAATTGGTTTTAAGCTGGGTGTACGACCAAGCCAGGGAGGAGAGGC  
ACCACGAGAAGTGAAGTTCAGACTCAGGAAGCATCGTTGTGTCCGGCTTGAAGTCCAGGAGTAGAATACGTCTACAC  
CATCCAAGTCTGAGAGATGGACAGGAAAGAGATGCGCCAATTGTAAACAAAGTGGTGTGACACCATTGTCTCCACC  
AACAACTTGCATCTGGAGGCAACCCCTGACACTGGAGTGTCTACAGTCTCCTGGGAGAGGAGCACCACCCAGCA  
CATTACTGGTTATAGAATTACCACAACCCCTACAAACGGCCAGCAGGGAAATTCCTTGGGAAGAGTGGTCCATGC

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**FIGURE 954B**

TGATCAGAGCTCCTGCACTTTTGGATAACCTGAGTCCCGGCTGGAGTACAATGTCAGTGTTTACACTGTCAAGGA  
TGACAAGGAAAAGTGTCCCTATCTCTGATACCATCATCCCAGCTGTTCCCTCCTCCCACTGACCTGCGATTACCAA  
CATTGGTCCAGACACCATGCGTGTACCTGGGCTCCACCCCATCCATTGATTTAACCAACTTCTGGTGCGTTA  
CTCACCTGTGAAAAATGAGGAAGATGTTGCAGAGTTGTCAATTTCTCCTTCAGACAATGCAGTGCGTCTTAACAAA  
TCTCCTGCCTGGTACAGAATATGTAGTGAGTGTCTCCAGTGTCTACGAACAACATGAGAGCACACCTCTTAGAGG  
AAGACAGAAAACAGGTCTTGATTCCCCAACTGGCATTGACTTTTCTGATATTACTGCCAACTCTTTTACTGTGCA  
CTGGATTGCTCCTCGAGCCACCATCACTGGCTACAGGATCCGCCATCATCCCGAGCACTTCAGTGGGAGACCTCG  
AGAAGATCGGGTGCCCCACTCTCGGAATTCATCACCCCTACCAACCTCACTCCAGGCACAGAGTATGTGGTCAG  
CATCGTTGCTCTTAATGGCAGAGAGGAAAGTCCCTTATTGATTGGCCAACAATCAACAGTTTCTGATGTTCCGAG  
GGACCTGGAAGTTGTTGCTGCGACCCCCACCAGCCTACTGATCAGCTGGGATGCTCCTGCTGTACAGTGAGATA  
TTACAGGATCACTTACGGAGAGACAGGAGGAAATAGCCCTGTCCAGGAGTTCACTGTGCTGGGAGCAAGTCTAC  
AGCTACCATCAGCGGCTTAAACCTGGAGTTGATTATACCATCACTGTGTATGCTGTCACTGGCCGTGGAGACAG  
CCCCGCAAGCAGCAAGCCAATTTCCATTAAATTACCGAACAGAAATTGACAAACCATCCAGATGCAAGTGACCGA  
TGTTTCAGGACAACAGCATTAGTGTCAAGTGGCTGCCTTCAAGTTCCCCTGTTACTGGTTACAGAGTAACCACCAC  
TCCCCAAAATGGACCAGGACCAACAAAACCTAAAACCTGCAGGTCCAGATCAAACAGAAATGACTATTGAAGGCTT  
GCAGCCACAGTGGAGTATGTGGTTAGTGTCTATGCTCAGAATCCAAGCGGAGAGAGTCAGCCTCTGGTTCAGAC  
TGCAGTAACCAACATTGATCGCCCTAAAGGACTGGCATTCACTGATGTGGATGTGATTCCATCAAATTGCTTG  
GGAAAGCCACAGGGGCAAGTTTCCAGGTACAGGGTGACCTACTCGAGCCCTGAGGATGGAATCCATGAGCTATT  
CCCTGCACCTGATGGTGAAGAAGACACTGCAGAGCTGCAAGGCCTCAGACCGGGTTCTGAGTACACAGTCAGTGT  
GGTTGCCTTGACAGATGATATGGAGAGCCAGCCCTGATTGGAACCCAGTCCACAGCTATTCTGCACCAACTGA  
CCTGAAGTTCACTCAGGTACACCCACAAGCCTGAGCGCCCACTGGACACCACCAATGTTACAGTCACTGGATA  
TCGAGTGCGGGTGACCCCCAAGGAGAAGACCGGACCAATGAAAGAAATCAACCTTGCTCCTGACAGTCACTCCGT  
GGTTGTATCAGGACTTATGGTGGCCACCAATATGAAGTGAGTGTCTATGCTCTTAAGGACACTTTGACAAGCAG  
ACCAGCTCAGGGAGTTGTCAACCACTCTGGAGAATGTGAGCCACCAAGAAGGGCTCGTGTGACAGATGCTACTGA  
GACCACCATCACCATTAGCTGGAGAACCAAGACTGAGACGATCACTGGCTTCCAAGTTGATGCCGTTCCAGCCAA  
TGGCCAGACTCCAATCCAGAGAACCATCAAGCCAGATGTGAGAAGCTACACCATCACAGGTTTACAACCAGGCAC  
TGACTACAAGATCTACCTGTACACCTTGAATGACAATGCTCGGAGCTCCCCTGTGGTCATCGACGCCCTCCACTGC  
CATTGATGCACCATCCAACCTGCGTTTCTGGCCACCACACCAATTCCTTGCTGGTATCATGGCAGCCGCCACG  
TGCCAGGATTACCGGCTACATCATCAAGTATGAGAAGCCTGGGTCTCCTCCCAGAGAAGTGGTCCCTCGGCCCCG  
CCCTGGTGTACAGAGGCTACTATTACTGGCCTGGAACCGGGAACCGAATATACAATTTATGTCATTGCCCTGAA  
GAATAATCAGAAGAGCGAGCCCCTGATTGGAAGGAAAAAGACAGACGAGCTTCCCCAACTGGTAACCTTCCACA  
CCCCAATCTTCATGGACCAGAGATCTTGGATGTTCTTCCACAGTTCAAAGAGACCCCTTTCGTCACCCACCCTGG  
GTATGACACTGGAAATGGTATTCAGCTTCTTGGCACTTCTGGTCAGCAACCCAGTGTGGGCAACAAATGATCTT  
TGAGGAACATGGTTTTAGGCGGACCACACCGCCCAACGGCCACCCCCATAAGGCATAGGCCAAGACCATAACC  
GCCGAATGTAGGACAAGAAGCTCTCTCTCAGACAACCATCTCATGGGCCCCATTCCAGGACACTTCTGAGTACAT  
CATTTTATGTATCCTGTTGGCACTGATGAAGAACCCTTACAGTTCAGGGTTCTTGAACCTTCTACAGTGCCAC  
TCTGACAGGCCTCACCAGAGGTGCCACCTACAACGTCATAGTGAGGCACTGAAAGACCAGCAGAGGCATAAGGT  
TCGGGAAGAGGTTGTTACCGTGGGCAACTCTGTCAACGAAGGCTTGAACCAACCTACGGATGACTCGTGCTTTGA  
CCCCTACACAGTTTCCATTATGCCGTTGGAGATGAGTGGGAACGAATGTCTGAATCAGGCTTTAACTGTTGTG  
CCAGTGCTTAGGCTTTGGAAGTGGTCATTTAGATGTGATTATCTAGATGGTGCCATGACAATGGTGTGAACCTA  
CAAGATTGGAGAGAAGTGGGACCGTCAGGGAGAAAAATGGCCAGATGATGAGCTGCACATGTCTTGGGAACGGAAA  
AGGAGAATTCAAGTGTGACCCTCATGAGGCAACGTGTTATGATGATGGGAAGACATAACCGTAGGAGAACAGTG  
GCAGAAGGAATATCTCGGTGCCATTTGCTCCTGCACATGCTTTGGAGGCCAGCGGGGCTGGCGCTGTGACAACTG  
CCGCAGACCTGGGGGTGAACCCAGTCCCGAAGGCACTACTGGCCAGTCTTACAACAGTATTCTCAGAGATACCA  
TCAGAGAACAAACACTAATGTTAATTGCCCAATTGAGTGCTTCATGCCTTTAGATGTACAGGCTGACAGAGAAGA  
TTCCCGAGAGTAAATCATCTTTCCAATCCAGAGGAACAAGCATGTCTCTCTGCCAAGATCCATCTAAACTGGAGT  
GATGTTAGCAGACCCAGCTTAGAGTTCTTCTTTCTTTCTTAAGCCCTTTGCTCTGGAGGAAGTTCTCCAGCTTCA  
GCTCAACTCACAGCTTCTCCAAGCATCACCCCTGGGAGTTTCTGAGGGTTTTCTCATAAATGAGGGCTGCACATT

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**FIGURE 954C**

GCCTGTTCTGCTTCGAAGTATTCAATACCGCTCAGTATTTTAAATGAAGTGATTCTAAGATTTGGTTTGGGATCA  
ATAGGAAAGCATATGCAGCCAACCAAGATGCAAATGTTTTGAAATGATATGACCAAAATTTAAGTAGGAAAGTC  
ACCCAAACACTTCTGCTTTCACCTAAGTGTCTGGCCCGCAATACTGTAGGAACAAGCATGATCTTGTTACTGTGA  
TATTTTAAATATCCACAGTACTCACTTTTTCCAAATGATCCTAGTAATTGCCTAGAAATATCTTCTCTTACCTG  
TTATTTATCAATTTTTCCCAGTATTTTTATACGGAAAAAATTGTATTGAAAACACTTAGTATGCAGTTGATAAGA  
GGAATTTGGTATAATTATGGTGGGTGATTATTTTTTATACTGTATGTGCCAAAGCTTTACTACTGTGGAAAGACA  
ACTGTTTTAATAAAAGATTTACATTCC

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**FIGURE 955**

CGGCAGCCCTCCTACCTGCGCACGTGGTGCCGCTGCTGCTGCCTCCCGCTCGCCCTGAACCCAGTGCCTGCAGCC  
ATGGCTCCCGGCCAGCTCGCCTTATTTAGTGTCTCTGACAAAACCGGCCTTGTGGAATTTGCAAGAAACCTGACC  
GCTCTTGGTTTGAATCTGGTCGCTTCCGGAGGGACTGCAAAAGCTCTCAGGGATGCTGGTCTGGCAGTCAGAGAT  
GTCTCTGAGTTGACGGGATTTCTGAAATGTTGGGGGGACGTGTGAAAACCTTGCATCCTGCAGTCCATGCTGGA  
ATCCTAGCTCGTAATATTCCAGAAGATAATGCTGACATGGCCAGACTTGATTTCAATCTTATAAGAGTTGTTGCC  
TGCAATCTCTATCCCTTTGTAAAGACAGTGGCTTCTCCAGGTGTAACGTGTGAGGAGGCTGTGGAGCAAATTGAC  
ATTGGTGGAGTAACCTTACTGAGAGCTGCAGCCAAAACACGCTCGAGTGACAGTGGTGTGTGAACCAGAGGAC  
TATGTGGTGGTGTCCACGGAGATGCAGAGCTCCGAGAGTAAGGACACCTCCTTGGAGACTAGACGCCAGTTAGCC  
TTGAAGGCATTCACCTCATACGGCACAAATATGATGAAGCAATTTTCAGATTATTTTCAGGAAACAGTACAGCAAAGGC  
GTATCTCAGATGCCCTTGAGATATGGAATGAACCCACATCAGACCCCTGCCAGCTGTACACACTGCAGCCCAAG  
CTTCCCATCAGATTCTAAATGGAGCCCTTGATTTATAAACTTGTGCGATGCTTTGAACGCCTGGCAGCTGGTG  
AAGGAACTCAAGGAGGCTTTAGGTATTCAGCCGCTGCCTCTTTCAAACATGTCAGCCCAGCAGGTGCTGCTGTT  
GGAATTCACCTCAGTGAAGATGAGGCCAAAGTCTGCATGGTTTATGATCTCTATAAAACCCCTCACACCCATCTCA  
GCGGCATATGCAAGAGCAAGAGGGGCTGATAGGATGTCTTCATTTGGTGATTTTGTTCATTGTCCGATGTTTGT  
GATGTACCAACTGCAAAAATTATTTCCAGAGAAGTATCTGATGGTATAAATTGCCCCAGGATATGAAGAAGAAGCC  
TTGACAATACTTTCCAAAAAGAAAAATGGAAGTATTGTGTCTTCAGATGGACCAATCTTACAAACCAGATGAA  
AATGAAGTTCGAACCTCTCTTTGGTCTTCATTTAAGCCAGAAGAGAAATAATGGTGTCTGTCGACAAGTCATTATTT  
AGCAATGTTGTTACCAAAAATAAAGATTTGCCAGAGTCTGCCCTCCGAGACCTCATCGTAGCCACCATTGCTGTC  
AAGTACACTCAGTCTAACTCTGTGTGCTACGCCAAGAACGGGCAGGTTATCGGCATTGGAGCAGGACAGCAGTCT  
CGTATACACTGCACTCGCCTTGCAGGAGATAAGGCAAACCTATTGGTGGCTTAGACACCATCCACAAGTGCTTTTCG  
ATGAAGTTTAAACAGGAGTGAAGAGAGCAGAAATCTCCAATGCCATCGATCAATATGTGACTGGAACCATTTGGC  
GAGGATGAAGATTTGATAAAGTGAAGGCACTGTTTGAGGAAGTCCCTGAGTTACTCACTGAGGCAGAGAAGAAG  
GAATGGGTTGAGAACTGACTGAAGTTTCTATCAGCTCTGATGCCTTCTTCCCTTTCCGAGATAACGTAGACAGA  
GCTAAAAGGAGTGGTGTGGCGTACATTGCGGCTCCCTCCGGTTCTGCTGCTGACAAAGTTGTGATTGAGGCCTGC  
GACGAAGTGGGAATCATCCTCGCTCATACGAACCTTCGGCTCTTCCACCACTGATTTTACCACACACTGTTTTTT  
GGCTTGCTTATGTGTAGGTGAACAGTCACGCCTGAAACTTTGAGGATAACTTTTTAAAAAAATAAAACAGTATCT  
CTTAAACAATGTTTTGATCTACATAAACATTGTAAAAATTTTCAATCACGCTTTTTAACTTTCTTACCACAAAA  
AAATGATAAGTGGGTGAAGTGATGGTTATGTTAATTAGCGTGC



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**FIGURE 956**

MAPGQLALFSVSDKTGLVEFARNLTALGLNLVASGGTAKALRDAGLAVRDVSELTGFPEMLGGRVKTLLHPAVHAG  
ILARNIPEDNADMARLDENLIRVVACNLYPFVKTVASPGVTVEEAVEQIDIGGVTLRLRAAAKNHARVTVVCEPED  
YVVVSTEMQSSES KDTSL ETRRQLALKAFTHTAQYDEAISDYFRKQYSKGVSQMPLRYGMNPHQTPAQLYTLQPK  
LPITVLNGAPGFINLCDALNAWQLVKELKEALGIPAAASFKEHVSPAGAAVGIPLSEDEAKVCMVYDLYKTLPIS  
AAYARARGADRMSSFGDFVALSDVCDVPTAKIISREVSDGIIAPGYEEEEALTILSKKKNGNYCVLQMDQSYKPDE  
NEVRTLFGLHLSQKRNNGVVDKSLFSNVVTKNKDLPESALRDLIVATIAVKYTSNSVCYAKNGQVIGIGAGQQS  
RIHCTRLAGDKANYWLRHHPQVLSMKFKTGVKRAEISNAIDQYVTGTIGEDDLIKWKALFEEVPELLTEAEKK  
EWVEKLTEVSISSDAFFPFRRDNVDRAKRSGVAYIAAPSGSAADKVVEACDELGIILAHTNLRLFHH

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**FIGURE 957**

GCAGCCAATTAAGCCAAGTGAAGTTTCCTTTGCTGGGGGCCCAGTGTGCAATGGCTGCACACAGCAGCTTCCTT  
GGTAGTGACACAGCCTGTTGGTTGTATGGGTTGCTCTGAGGGACCTTGGAGACAGGCCTTTCCAATGGATGTTT  
ATGTTTCTGACCTTGCGCTACCCCAATGTAGGCTCCAAACAGGCATGCGAGGTGCCTTTGGAATGCCCCAGGGCA  
CTGTGGCCAGGGTTACATTGGCCAAGTTATCATGTCCATCCGCACCAAGCTGCAGAACAAGGAGCATGTGATTG  
AGGCCCTGCGCAGGGCCAAGTTCAAGCTTCCTGGCCACCAGAAGATCCACATCTCAAAGAAGTGGGGCTTCACCA  
AGTTCAATGCTGATGAATTTGAAGACATGGTGGCTGAGAAGTGGCTCATCCAGATGGCTGTGGGGTCAAGTACA  
TCCCAATCGTGGCCCTCTGGACAAGTGGCGGGCCCTGCACTCATGAGGGCTTCCAATGTGCTGCCCCCTCTTA  
ATACTCACCAATAAATTCTACTTCCTGTCAAAAAAATGTCACTAATGTACCCTAAATTTCTTTTTTATTTTTAT  
TTTTTATTTATTTATTTATTTTGGAGATGGTGTCTTGCTCTTTGCCAGACTGGAGTGAAGTAGCATGATCT  
TGGCTTACTGCAACCTCCACCCCCAG

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**FIGURE 958**

GGCGGGCGACCAAAGCGCCTGAGGACCGGCAACATGGTGC GGTCGGGGAATAAGGCAGCTGTTGTGCTGTGTATG  
GACGTGGGCTTTACCATGAGTAACTCCATTCTGGTATAGAATCCCCATTTGAACAAGCAAAGAAGGTGATAACC  
ATGTTTGTACAGCGACAGGTGTTTGTCTGAGAACAAGGATGAGATTGCTTTAGTCCTGTTTGGTACAGATGGCACT  
GACAATCCCCCTTTCTGGTGGGGATCAGTATCAGAACATCACAGTGCACAGACATCTGATGCTACCAGATTTTGAT  
TTGCTGGAGGACATTGAAAGCAAAATCCAACCAGGTTCTCAACAGGCTGACTTCCTGGATGCACTAATCGTGAGC  
ATGGATGTGATTCAACATGAAACAATAGGAAAGAAGTTTGAGAAGAGGCATATTGAAATATTCACTGACCTCAGC  
AGCCGATTTCAGCAAAAGTCAGCTGGATATTATAATTTCATAGCTTGAAGAAATGTGACATCTCCCTGCAATTCTTC  
TTGCCTTTCTCACTTGGCAAGGAAGATGGAAGTGGGGACAGAGGAGATGGCCCCCTTTCGCTTAGGTGGCCATGGG  
CCTTCCTTTTCCACTAAAGGAATTACCGAACAGCAAAAAGAAGTCTTGAGATAGTGAAATGGTGATGATATCT  
TTAGAAGGTGAAGATGGGTGGATGAAATTTATTTCATTTCAGTGAGAGTCTGAGAAAAGTGTGCGTCTTCAAGAAA  
ATTGAGAGGCATTCCATTCTGCGCCCTGCGGACTGACCATTGGCTCCAATTTGTCTATAAGGATTGCAGCCTAT  
AAATCGATTCTACAGGAGAGAGTTAAAAAGACTTGGACAGTTGTGGATGCAAAAACCTAAAAAAGAAGATATA  
CAAAAAGAAACAGTTTATTGCTTAAATGATGATGATGAACTGAAGTTTTAAAGAGGATATTATTCAAGGGTTC  
CGCTATGGAAGTGATATAGTTCTTTCTCTAAAGTGGATGAGGAACAAATGAAATATAAATCGGAGGGGAAGTGC  
TTCTCTGTTTTTGGGATTTTGTAAATCTTCTCAGGTTTCAGAGAAGATTCTTCATGGGAAATCAAGTTCTAAAGGTC  
TTTGCAGCAAGAGATGATGAGGCAGCTGCAGTTGCACTTTCTCCCTGATTTCATGCTTTGGATGACTTAGACATG  
GTGGCCATAGTTTCGATATGCTTATGACAAAAGAGCTAATCCTCAAGTCGGCGTGGCTTTTCTCATATCAAGCAT  
AACTATGAGTGTGTTAGTGTATGTGCAGCTGCCTTTTCATGGAAGACTTGCAGCAATACATGTTTTTCATCCTTGAAA  
AACAGTAAGAAATATGCTCCACCGAGGCACAGTTGAATGCTGTTGATGCTTTGATTGACTCCATGAGCTTGGCA  
AAGAAAGATGAGAAGACAGACACCCTTGAAGACTTGTTCACACCACCAAAATCCCAATCCTCGATTTCAGAGA  
TTATTTCAGTGTCTGCTGCACAGAGCTTTACATCCCCGGGAGCCTCTACCCCCAATTCAGCAGCATATTGGAAT  
ATGCTGAATCCTCCCGCTGAGGTGACAACAAAAAGTCAGATTCTCTCTCTAAATAAAGACCCTTTTCTCTCTG  
ATTGAAGCCAAGAAAAAGGATCAAGTGACTGCTCAGGAAATTTTCCAAGACAACCATGAAGATGGACCTACAGCT  
AAAAATTAAGACTGAGCAAGGGGGAGCCCACTTCAGCGTCTCCAGTCTGGCTGAAGGCAGTGTACCTCTGTT  
GGAAGTGTGAATCCTGCTGAAAACCTTCCGTGTTCTAGTGAAACAGAAGAAGGCCAGCTTTGAGGAAGCGAGTAAC  
CAGCTCATAAATCACATCGAACAGTTTTTGGATACTAATGAAACACCGTATTTTATGAAGAGCATAGACTGCATC  
CGAGCCTTCCGGGAAGAAGCCATTAAAGTTTTCAGAAGAGCAGCGCTTTAACAACCTTCTGAAAGCCCTTCAAGAG  
AAAGTGGAAATTAACAATTAATCATTTCTGGGAAATGTTGTCCAGGATGGAATTACTCTGATACCAAAGAG  
GAAGCCTCTGGAAGTTCTGTGCAGCTGAGGAAGCCAAAAAGTTTCTGGCCCCCAAAGACAAACCAAGTGGAGAC  
ACAGCAGCTGTATTTGAAGAAGGTGGTGATGTGGACGATTTATTGGACATGATATAGGTCTGTGGATGTATGGGGA  
ATCTAAGAGAGCTGCCATCGCTGTGATGCTGGGAGTTCTAACAACAAAGTTGGATGCGGCCATTCAAGGGGAGC  
CAAAATCTCAAGAAATCCCAGCAGGTTACCTGGAGGCGGATCATCTAATCTCTGTGGAATGAATACACACATA  
TATATTACAAGGGATAATTTAGACCCCATACAAGTTTATAAAGAGTCATTGTTATTTTCTGGTTGGTGTATTATT  
TTTTCTGTGGTCTTACTGATCTTTGTATATTACATACATGCTTTGAAGTTTCTGGAAAGTAGATCTTTTCTTGAC  
CTAGTATATCAGTGACAGTTGCAGCCCTTGTGATGTGATTAGTGTCTCATGTGGAACCATGGCATGGTTATTGAT  
GAGTTTCTTAACCCTTTCCAGAGTCTCCTTTGCCTGATCCTCCAACAGCTGTCAACTTGTGTTGAGCAAGCA  
GTAGCATTGTGCTTCCCAACAAGCAGCTGGGTAGGAAAACCATGGGTAAGGACGGACTCACTTCTCTTTTAA  
GTTGAGGCCTTCTAGTTACCACATTACTCTGCCTCTGTATATAGGTGGTTTTCTTTAAGTGGGGTGGGAAGGGGA  
GCACAATTTCCCTTCATACTCCTTTTAAGCAGTGAGTTATGGTGGTGGTCTCATGAAGAAAAGACCCTTTTGGCCC  
AATCTCTGCCATATCAGTGAACCTTTAGAACTCAAAAAGTGAAGAAATTTACTTCAGTAGTTAGAATTATATCAC  
TTCAGTGTCTCTACTTGCAAGCCTCAAAGAGAGAAAGTTTCGTTATATTAAACACTTAGGTAACCTTTTCGGTC  
TTTCCCATTTCTACCTAAGTCAGCTTTTCATCTTTGTGGATGGTGTCTCCTTTACTAAATAAGAAAATAACAAAGC  
CCTTATTCTCTTTTTTTCTTGTCTCATTCTTGCCTTGAGTTCCAGTTCCTCTTGGTGTACAGACTTCTTGGTA  
CCCAGTCACCTCTGTCTTCAGCACCTCATAAGTCGTCACTAATACACAGTTTTGTACATGTAACATTAAAGGCA  
TAAATGACTC

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**FIGURE 959**

MVRSGNKAAVVLCMDVGFTMSNSIPGIESPFQAKKVI TMFVQRQVFAENKDEIALVLFGTGTDNPLSGGDQYQ  
NITVHRHMLPDPFDLLEDIESKIQPGSQQADFLDALIVSMDVIQHETIGKKFEKRHIEIFTDLSSRFSKSQLDII  
IHSLKKCDISLQFFLPFSLGKEDGSGDRGDGPFRLGGHGPFPLKGITEQQKEGLEIVKMVMISLEGEDGLDEIY  
SFSESLRKLCVFKKIERHSIHWPCRLTIGSNLSIRIAAYKSILQERVKKTWTVVDAKTLKKEDIQKETVYCLNDD  
DETEVLKEDIIQGFRYGSDIVPFSKVDEEQMKYKSEGKCFSVLGFCCKSSQVQRRFFMGNQVLKVFAARDDEAAAV  
ALSSLIHALDDLDMVAIVRYAYDKRANPQVGVAFPHIKHNYECLVYVQLPFMEDLRQYMFSSLKNSKKYAPTEAQ  
LNAVDALIDSMSLAKKDEKTDLTLEDLFPTTKIPNPRFQRLFQCLLHRALHPREPLPPIQQHIWNMLNPPAEVTTK  
SQIPLSKIKTLFPLIEAKKKDQVTAQEIQDNHEDGPTAKKLKTEQGAHFSVSSLAEGSVTSVGSVNPAENFRV  
LVKQKKASFEEASNQLINHIEQFLDTNETPYFMKSIDCIRAFREEAIKFSEEQRFNFLKALQEKVEIKQLNHF  
EIVVQDGITLITKEEASGSSVTAEAEAKKFLAPKDKPSGDTAAVFEEGDDVDDLDMI

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**FIGURE 960A**

CTTTTGGAGGCAAGTTGGATGAACAGAGAAGGGAAGAGAGGAAGAACGAGAGGAAGAGAAGGGAAGGAAGTGTTT  
GTGTAGAAGAGAGAGAGAAAGACGAATAGAGTTAGGAAAAGGAAGACAAGCAGGTGGGCAGGAAGGACATGCACCGA  
GACCAGGCAGGGGGCCCAACTTTACGTCCAGCCCTGGCCTGGGGTGGGAGAGGTGGGCGCTAGAAGATGCAGCC  
CAGGATGTGGCAATCAATGACACTATTGGGGTTTCCCAGGATGGATTGGTCAGGGGGAGAAAAGGAAAAGGCAAAA  
CACTCCAGGACCTCTCCCGGATCTGTCTCCTCCTCTAGCCAGCAGTATGGACAGCTGGACCCCTGAACCTCCTCT  
CCTCTTACCTGGGCAGAGTGTGTCTCTCCCAAATTTATAAAAACTAAAATGCATTCATTCTCTGAAAGCAA  
AACAAATTCATAATTGAGTGATATTAAATAGAGAGGTTTTCGGAAGCAGATCTGTGAATATGAAATACATGTGCA  
TATTTTCATTCCCCAGGCAGACATTTTTTAGAAATCAATACATGCCCAATATTGAAAAGACTTGTCTTCCACGG  
TGACTACAGTACATGCTGAAGCGTGCCGTTTCAGCCCTCATTTAATTCAATTTGTAAGTAGCGCAGCAGCCTCTG  
TGGGGGAGGATAGGCTGAAAAAAAAGTGGGCTCGTATTTATCTACAGGACTCCATATAGTCATATATAGGCAT  
ATAAATCTATTCTTTTCTTTGTTTTTCTTTCTTCTTCTTCAAAGGTTTGCATTAACTTTTCAAAGTAGT  
TCCTATAGGGGCATTGAGGAGCTTCCTCATTCTGGGAAAAGTGAAGAAACCCATATTCTCCTAATAACAACCCGTA  
ATAGCATTTTTGCCTGCCTCGAGGCAGAGTTTCCCGTGAGCAATAAACTCAGCTTTTTTGTGGGGCAGAGTACTG  
GATTTGACAGTGATTCCCCACGTGTGTTTCATCTGCACCCACCGAGCCAGGCAGAGGCCAGCCCTCCGTGGTGCAC  
ACAGCACGCGCCTCAGTCCATCCCATTTTAGTCTTTAAACCCTCAGGAAGTCACAGTCTCCGGACACCACACCAC  
ATGAGCCCAACAGGTCCACGATGGATCCACCAGTCCACCCAGCCTTTTCTTTTCATCTGAACAGAATGTGCAT  
TTTTGGAAGCCTCCCTCACTCTCCATGCTGGCAGAGCAGGAGGGAGACTGAAGTAAGAGATGGCAGAGGGAGATG  
GTGGCAAAAAGGTTTAGATGCAGGAGAACAGTAAGATGGATGGTTCCGGCCAGAGTCGATGTGGGGAGGAACAGA  
GGGCTGAAGGGAGAGGGGGCTGACTGTTCCATTCTAGCTTTGGCACAAAGCAGCAGAAAGGGGGAAAAAGCCAATA  
GAAATTTCTTAGCTTCCCCACCATATGTATTTTCTAGGATTTGAGAGGAAAGAGAGGAAAATGGGGGAATGGGT  
TGCAAAATAGAAATGAGCTTAATCCAGGCCGCAGAGCCAGGGAAGGTGAGTAACCTTTAGGAGGGTGCTAGACTTT  
AGAAGCCAGATAGGAAGAATCAGTCTAACTGGCCATGCTTTGGAAGGGACAAGACTATGTGCTCCGCTGCCAC  
CTTCAGCCTGCAATGAGGGACTGAGGCCACGAGTCTTTCCAGCTCTTCTCATTCTGGCCAGTCCCTGCATCC  
TCCCTGGGGTGGAGGATGGAAGGAAAGCTGGGACAAGCAGGGAACGCATGATTTCAGGGATGCTGTCACTCGGCAG  
CCAGATTCCGAAACTCCCATTTCTCAATGACTTCTCAACCAATGGGTGGCCTTGTGACTGTTCTTTAAGGCTGA  
AGATATCCAGGAAAGGGGGCTTGACACTGGCCAAGGAGACCCCTTCGTGCTGTGGACACAGCTCTCTTCACTCT  
TTGCTCATGGCATGACACAGCGGAGACCGCTCCAACAACGAATTTGGGGCTACGAAGAGGAATAGCGAAAAAGC  
AAATCTGTTTCAACTGATGGGAACCCTATAGCTATAGAACTTGGGGGCTATCTCCTATGCCCTGGACAGGACAG  
TTGGCTGGGGACAGGAGAAGTGCTCAATCTTCATGAGACAAAGGGGGCCGATAGGGCCAGCAGCCACAAGGCCTT  
GACCTGCCGAGTCAGCATGCCCATCTCTCTGCACAGCTGTCCCCTAAACCCAACTCACGTTTCTGTATGTCTTA  
GGCCAGTATCCCAAACCTCTTCCACGTCACTGTTCTTTCCACCCATTCTCCCTTTGCATCTTGAGCAGTTATCCA  
ACTAGGATCTGCCAAGTGGATACTGGGGTGCCACTCCCTGAGAAAAGACTGAGCCAGGAATAAAGCTCCCCC  
CACATTCCTCCAGCCTGGACCTAATTCTTGAGAGGGGCTCTCTCTTACGGACTGTGTCTGGACTTTGAGCAGG  
CTTCTGCCCTTGGCTTGGCTCTTTGCTGCCAGCCATCAGGTGGGGGATTAGAGCCTGGTGTAAAGTGCGCCAGAC  
TCTTCCGGTTTCCAAAGTTCGTGCCTGCGAACCCAAACCTGTGAGTCTTCTTGCATGCAGGAGTTTCTCCTGGG  
CAGCTGGTCACTCCCCAGAGAAGCTGGGCCTTCATGGACACATGGAATAAGCCTCCCAAATGGGAGTTCTGGCT  
GAGCCCAGGGTGGGGAGATCCTGGGAAGGGAGGCACTGGAGGAAGACGGCACCTCTTCCCCATGGCAGGGTGTG  
AGGGAGGCAGGTTTGGAAATGGTGCAGATATGGCAATCTAAGCAGGGGTCTGGTCTCTTTGACTCCAGGCTGGCCT  
TTGGCCGACTGTCTGCTACCCAGAGACCTTGAGCTCCGACTATCCATGGCTCCGAATCTAAGTGCTGCCCACT  
CCCATGCTCACACCCACAGAAGGTCTTCCATCCCTTTAGATTTCGTGCCTCACTCCACCAAGTGAGGAAGATGCC  
TCTGTCTTTCCACGACTGCCAGGAGATAGGGAAGCCAGCCAGGACTGACCTCCTTCTCCAGCCTGCCCTGA  
CCCACCTGGCAAAAGCAGGGCACATGGGGGAGGAAGAGACTGGAACCTTTCTTTGACAGCCAGGCCTAGACAGACAG  
GCCTGGGGACACTGGCCCCATGAGGGGAGGAAGGCAGGCGACGAGGTCCAGGGAGGCCCTTTTCTGATCATGCC  
CCTTCTCTCCACCCCATCTCCCCACCACCTCTGTGGCCTCCATGGTACCCCCACAGGGCTGGCCTCCCCTA  
GAGGGTGGGCCTCAACCACTGCTCCCGCCACGCACCGGTTAGTGAGACAGGGCTGCCACGGCAACCGCCAAGCC  
CCCCCAAGGTGGGACAGTACCCCGGACCCATCCACTCACTCCTGAGAGGGCTCCGGCCAGAATGGGAACCTCA  
GAGAAGAGCTCTAAGGAGAAGAAACCCCATAGCGTCAGAGAGGATATGTCTGGCTTCCAAGAGAAAGGAGGCTCC  
GTTTTGCAAAGTGAGGAGGGACGAGGGGACAGGGGTTTACCAGCCAGCAACCTGGGCCTTGTACTGTCTGTGTT

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**FIGURE 960B**

TTTAAAACCACTAAAGTGCAAGAATTACATTGCACTGTTTCTCCACTTTTTATTTTCTCTTAGGCCTTTTGTTTCT  
ATTTCAAACATACTTTCTTGGTTTTCTAATGGAGTATATAGTTTAGTCATTTACAGACTCTGGCCTCCTCTCCT  
GAAATCCTTTTGGATGGGGAAAGGGAAGGTGGGGAGGGTCCGAGGGGAAGGGGACCCAGCTTCCCTGTGCCCGC  
TCACCCCACTCCACCAGTCCCCGGTCGCCAGCCGGAGTCTCCTCTCTACCGCCACTGTCACACCGTAGCCACAT  
GGATAGCACAGTTGTCAGACAAGATTCCTTCAGATTCCGAGTTGCCTACCGGTTGTTTTCGTTGTTGTTGTTGTT  
GTTTTTCTTTTTCTTTTTTTTTTTGAAGACAGCAATAACCACAGTACATATTACTGTAGTTCTCTATAGTTTTAC  
ATACATTCATACCATAACTCTGTTCTCTCCTCTTTTTTGTTTTCAACTTTAAAAACAAAAATAACGATGATAAT  
CTTTACTGGTGAAAAGGATGGAAAAATAAATCAACAAATGCAACCAGTTTGTGAG

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**FIGURE 961**

MLWKGQDYVLRCPPSACNEGLRPTSLSSSSSILASPCILPGVEDGRKAGTSRERMIQGCCHSAARFRNSHSPMTS  
STNGWPCDCSLRLKISRKGGLDTGQGDPFVLWTQLSSLFAHGMTQRRPPPTNLGLRRGIAKKQICFN

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**FIGURE 962**

CCTCTGTGGCCTCCATGGTACCCCCACAGGGCTGGCCTCCCCTAGAGGGTGGGCCTCAACCACCTGCTCCCGCCA  
CGCACCGGTTAGTGAGACAGGGCTGCCACGGCAACCGCCAAGCCCCCTCAAGGTGGGACAGTACCCCGGACCCA  
TCCACTCACTCCTGAGAGGGCTCCGGCCCAGAATGGGAACCTCAGAGAAGAGCTCTAAGGAGAAGAAACCCATA  
GCGTCAGAGAGGATATGTCTGGCTTCCAAGAGAAAGGAGGCTCCGTTTTGCAAAGTGGAGGAGGGACGAGGGACA  
GGGGTTTCACCAGCCAGCAACCTGGGCCTTGTAAGTGTCTGTGTTTTTAAACCACTAAAGTGCAAGAATTACATT  
GCACTGTTTCTCCACTTTTTATTTTCTCTTAGGCTTTTGTTTCTATTTCAAACATACTTTCTTGTTTTCTAATG  
GAGTATATAGTTTAGTCATTTACAGACTCTGGCCTCCTCTCCTGAAATCCTTTTGGATGGGGAAAGGGAAGGTG  
GGGAGGGTCCGAGGGGAAGGGGACCCAGCTTCCCTGTGCCCCTCACCCTCCAGTCCCCGGTCGCCAG  
CCGGAGTCTCCTCTCTACCGCCACTGTCACACCGTAGCCACATGGATAGCACAGTTGTCAGACAAGATTCCCTC  
AGATTCCGAGTTGCCTACCGGTTGTTTTCGTTGTTGTTGTTGTTGTTTTCTTTTTCTTTTTTTTTTTGAAGACA  
GCAATAACCACAGTACATATTACTGTAGTTCTCTATAGTTTTACATACATTCATACCATAACTCTGTTCTCTCCT  
CTTTTTTGTTTTCACTTTAAAAACAAAAATAAACGATGATAATCTTACTGGTGAAAAGGATGGAAAAATAAAT  
CAACAAATGCAACCAGTTTGTGAGAAAAAAAAAAAAAAAAAGCCGAAAAAAAAAAAAAAAA



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**FIGURE 963**

MVPPQGWPPLEGGFQPPAPATHRLVRQGCHGNRQAPLKVGQYPGPIHSLRLRGLRPRMGTSEKSSKEKKPHSVRED  
MSGFQEKGGSVLQSGGGTRDRGFTSQQPGPCTVCVFKTTKVQELHCTVSPLFIFS

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**FIGURE 964**

GGCGAGGGAGGAGGAAGAAGCGGAGGAGGCGGCTCCCGCGCTCGCAGGGCCGTGCCACCTGCCCCGCCGCCCGCT  
CGCTCGCTCGCCCCGCCGCCCGCGCTGCCGACCGCCAGCATGCTGCCGAGAGTGGGCTGCCCGCGCTGCCGCTG  
CCGCCGCCGCCCGCTGCTGCCGCTGCTGCTGCTACTGGGCGCGAGTGCGGCGGCGGCGGGGCGCGCGCGGAG  
GTGCTGTTCCGCTGCCCCGCCCTGCACACCGAGCGCTGGCCGCTGCGGGCCCCCGCGGTTGCGCCGCCCGCC  
GCGGTGGCCGCGAGTGCGCGGAGGCGCCCGCATGCCATGCGCGGAGCTCGTCCGGGAGCCGGGCTGCGGCTGCTGC  
TCGGTGTGCGCCCGGCTGAGGGCGAGGCGTGCGGCGTCTACACCCCGCGCTGCGGCCAGGGGCTGCGCTGCTAT  
CCCCACCCGGGCTCCGAGCTGCCCCTGCAAGCGCTGGTCATGGGCGAGGGCACTTGTGAGAAGCGCCGGGACGCC  
GAGTATGGCGCCAGCCCGGAGCAGGTTGCAGACAATGGCGATGACCACTCAGAAGGAGGCCCTGGTGGAGAACCAC  
GTGGACAGCACCATGAACATGTTGGGCGGGGAGGCAGTGCTGGCCGGAAGCCCCCTCAAGTCGGGTATGAAGGAG  
CTGGCCGTGTTCCGGGAGAAGGTCAC TGAGCAGCACCGGCAGATGGGCAAGGGTGGCAAGCATCACCTTGGCCTG  
GAGGAGCCCAAGAAGCTGCGACCACCCCTGCCAGGACTCCCTGCCAACAGGAACTGGACCAGGTCCTGGAGCGG  
ATCTCCACCATGCGCCTTCCGGATGAGCGGGGCCCTCTGGAGCACCTCTACTCCCTGCACATCCCCAACTGTGAC  
AAGCATGGCCTGTACAACCTCAAACAGTGCAAGATGTCTCTGAACGGGCAGCGTGGGGAGTGCTGGTGTGTGAAC  
CCCAACACCGGGAAGCTGATCCAGGGAGCCCCACCATCCGGGGGGACCCCGAGTGTCATCTCTTCTACAATGAG  
CAGCAGGAGGCTCGCGGGGTGCACACCCAGCGGATGCAGTAGACCGCAGCCAGCCGGTGCCTGGCGCCCTGCCC  
CCGCCCCCTCTCCAAACACCGGCAGAAAACGGAGAGTGCTTGGGTGGTGGGTGCTGGAGGATTTTCCAGTTCTGA  
CACACGTATTTATATTTGGAAAGAGACCAGCACCGAGCTCGGCACCTCCCCGGCCTCTCTCTTCCAGCTGCAGA  
TGCCACACCTGCTCCTTCTTGCTTTCCCCGGGGGAGGAAGGGGGTTGTGGTCGGGGAGCTGGGGTACAGGTTTGG  
GGAGGGGGAAGAGAAATTTTTATTTTTGAACCCCTGTGTCCCTTTTGCATAAGATTAAAGGAAGGAAAAGT

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**FIGURE 965**

AGCGGATCTCCACCATGCGCCTTCCGGATGAGCGGGGCCCTCTGGAGCACCTCTACTCCCTGCACATCCCCAACT  
GTGACAAGCATGGCCTGTACAACCTCAAACAGTGCTGGTGTGTGAACCCCAACACCGGGAAGCTGATCCAGGGAG  
CCCCACCATCCGGGGGGACCCCGAGTGTCATCTCTTCTACAATGAGCAGCAGGAGGCTCGCGGGGTGCACACCC  
AGCGGATGCAGTAGACCGCAGCCAGCCGGTGCCTGGCGCCCCCTGCCCCCGCCCCCTCTCCAAACACCGGCAGAAA  
ACGGAGAGTGCTTGGGTGGTGGGTGCTGGAGGATTTTCCAGTTCTGACACACGTATTTATATTGGAAAGAGACC  
AGCACCGAGCTCGGCACCTCCCCGGCCTCTCTCTTCCCAGCTGCAGATGCCACACCTGCTCCTTCTTGCTTTCCC  
CGGGGAGGAAGGGGGTTGTGGTCTGGGGAGCTGGGGTACAGGTTTGGGGAGGGGGAAGAGAAATTTTATTTTG  
AACCCTGTGTCCCTTTTGCATAAGATTAAAGGAAGG

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**FIGURE 966**

CTTCCTTTCTGGGCTCGGACCTAGGTCGCGGCGACATGGCCAAACGTACCAAGAAAGTCGGGATCGTCGGTAAAT  
ACGGGACCCGCTATGGGGCCTCCCTCCGGAAAATGGTGAAGAAAATTGAAATCAGCCAGCACGCCAAGTACACTT  
GCTCTTTCTGTGGCAAAACCAAGATGAAGAGACGAGCTGTGGGGATCTGGCACTGTGGTTCCTGCATGAAGACAG  
TGGCTGGCGGTGCCTGGACGTACAATACCACTTCCGCTGTACGGTAAAGTCCGCCATCAGAAGACTGAAGGAGT  
TGAAAGACCAGTAGACGCTCCTCTACTCTTTGAGACATCACTGGCCTATAATAAATGGGTTAATTTATGTAACAA  
AAAAAAAAAAAAAAAAAAAA

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**FIGURE 967**

MAKRTKKVGIVGKYGTRYGASLRKMKVKKIEISQHAHYTCSEFCGKTKMKRRAVGIWHCGSCMKTVAGGAWTYNTTS  
AVTVKSAIRRLKELKDQ

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**FIGURE 968**

CCCCCGCCACCTCACACACCCCATCCGGGAGACCCACGTGCAGCTGGGCCCGGGCTGGCGCCGCACCTCGGGG  
TCTGCGCGTCTCCCCGGCGCGTTCCGGGCGCAGCCCCACGACACGGACCCCTGGCGGGGCGGCATCCGAGAAGTC  
GCAGGCGGAGAGGGGGCGTCTGGAGGCCGGGCGCGGGGACGCTGCGGCCCGCGGCCACACAAAGGAGGCGGCGG  
GAAGGCGGGGCAAGGCGGGCCGGGGCGGGGCGGCAGGAAGGGGCGGGGGCCCGCGCGGCGCCGCGGATAAAGC  
CCCCGCGCCCGCGGCAGCCAGCTTGCCTGTGGGGCTGCCCGGGCTGCGCGGCGTCTGCAGGCGCCACCGCTGCC  
TCTTTCCGGCTGTGACCCCTCCTCGCCGCCCGCTTGGCTGCGTCTCCGACTCCCCGCGCCCGGAGACCAGGC  
TCCCGCTCCGGTTGCGGCCGCACCGCCCTCCGCGGCCGCCCTGGGGATCCAGCGAGCGCGGTCTGCTCCTTGGTG  
GAAGGAACCATGAACCTGGCATCTCCCCCTCTTCTTGGCTCTGTGACGCTGCCTTCCATCTGCTCCCACTTC  
AATCCTCTGTCTCTCGAGGAACCTAGGCTCCAACACGGGGATCCAGGTTTTCAATCAGATTGTGAAGTCGAGGCCT  
CATGACAACATCGTGATCTCTCCCATGGGATTGCGTCCGTCTGGGGATGCTTCAGCTGGGGGCGGACGGCAGG  
ACCAAGAAGCAGCTCGCCATGGTGATGAGATACGGCGTAAATGGAGTTGGTAAAATATTAAAGAAGATCAACAAG  
GCCATCGTCTCCAAGAAGAATAAAGACATTGTGACAGTGGCTAACGCCGIGTTTTGTTAAGAATGCCTCTGAAATT  
GAAGTGCCTTTTTGTACAAGGAACAAAGATGTGTTCCAGTGTGAGGTCCGGAATGTGAACCTTTGAGGATCCAGCC  
TCTGCCGTGTGATTCCATCAATGCATGGGTTAAAAATGAAACCAGGGATATGATTGACAATCTGCTGTCCCCAGAT  
CTTATTGATGGTGTGCTCACCAGACTGGTCTCGTCAACGCAGTGTATTTCAAGGGTCTGTGGAAATCACGGTTC  
CAACCCGAGAACACAAAGAAACGCACTTTCGTGGCAGCCGACGGGAAATCCTATCAAGTGCCAATGCTGGCCAG  
CTCTCCGTGTTCCGGTGTGGGTGCGACAAGTGCCCCAATGATTTATGGTACAACCTTCATTGAACCTGCCCTACCAC  
GGGGAAAGCATCAGCATGCTGATTGCACTGCCGACTGAGAGCTCCACTCCGCTGTCTGCCATCATCCACACATC  
AGCACCAAGACCATAGACAGCTGGATGAGCATCATGGTGCCCAAGAGGGTGCAGGTGATCCTGCCCAAGTTCACA  
GCTGTAGCACAACAGATTTGAAGGAGCCGCTGAAAGTTCTTGGCATTACTGACATGTTTGATTTCATCAAAGGCA  
AATTTTGCAAAATAACAAGGTGAGAAAACCTCCATGTTTCTCATATCTTGCAAAAAGCAAAAATTGAAGTCAGT  
GAAGATGGAACCAAGCTTCAGCAGCAACAACCTGCAATTCTCATTTGCAAGATCATCGCCTCCCTGGTTTTATAGTA  
GACAGACCTTTTCTGTTTTTTCATCCGACATAATCCTACAGGTGCTGTGTTATTTCATGGGGCAGATAAACAAACCC  
TGAAGAGTATACAAAAGAAACCATGCAAGCAACGACTACTTTGCTACGAAGAAAGACTCCTTTCTGCATCTTT  
CATAGTTCTGTAAATATTTTTGTACATCGCTTCTTTTTCAAACTAGTTCTTAGGAACAGACTCGATGCAAGTG  
TTTCTGTTCTGGGAGGTATTGGAGGGAAAAACAAGCAGGATGGCTGGAACACTGTACTGAGGAATGAATAGAAA  
GGCTTCCAGATGTCTAAAAGATTCTTTAACTACTGAACTGTTACCTAGGTAAACAACCCGTGTGAGTATTTGCT  
GTTTGTCCAGTTCAGGAATTTTTGTTTTGTTTTGTCTATATGTGCGGCTTTTCAGAAGAAATTTAATCAGTGTGA  
CAGAAAAAAAATGTTTTATGGTAGCTTTTACTTTTTATGAAAAAAAATTTATTTGCCTTTTAAATCTTTTCCC  
CCATCCCCCTCCAAAGTCTTGATAGCAAGCGTTATTTGGTGGTAGAAACGGTGAAATCTCTAGCCTCTTTGTGT  
TTTTGTGTGTGTGTGTGTGTGTGTGTATATAATGCATGTATTCACTAAAAATAAAATTTAAAAAACTCCTGTCTT  
GCTAGACAAGGTGCTGTGTGTGTCAGTGTGCCTGTCACTACTGGTCTGTACTCCTTGGATTTGCATTTTTGTATTT  
TGTAACAAGTAAAAATAAAGTGTATGAGTAGT

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**FIGURE 969**

MNWHLPFLLLASVTLPSCSHFNPLSLEELGSNTGIQVFNQIVKSRPHDNIVISPHGIASVLGMLQLGADGRTKK  
QLAMVMRYGVNGVGKILKKINKAIVSKKNKDIVTVANAVFVKNASEIEVPFVTRNKDVFQCEVRNVNFEDPASAC  
DSINAWVKNETRDMIDNLLSPDLIDGVLTRLVLVNAVYFKGLWKS RFQ PENTKKRTFVAADGKSYQVPMLAQLSV  
FRCGSTSAPNDLWYNFIELPYHGESISMLIALPTESSTPLSAIIPHISTKTIDSWMSIMVPKRVQVILPKFTAVA  
QTDLKEPLKVLGITDMFDSSKANFAKITRSENLVSHILQAKIEVSEDTKASAATTAILIARSSPPWFIVDRP  
FLFFIRHNPTGAVLFMGQINKP

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**FIGURE 970**

ATGCGTGCTGAAAAAGAGAAAAAAGAATGCCCCAGAGGAGGTCAGCAGGCTTAAAAGTATTCTCAAACCTAGACGAT  
GACGTTTTAATGAAAGATGTTCAAGAGATAGCAACTGTGGTGGTACCCAAACCCAAACATTGCCAAGAGAAAATG  
CAATGTGAGGTAAAAGATGAAAAAGATGACATGAAAATGGAGACTGATATTAAGAGAAACAAAAAGACTCTTCTA  
GACCAGCATGGACAGTACCCAATATGGATGAACCAAAGGCAAAGAAAAAGGCTAAAGGCAAAGCGAGAGAAAAGA  
AAGGAGAAAAACAAAGCAAAAGCAGTGAAGTGGCAAAGGGTTTGGCCTGTAGTATTGTTTCCATAATAGTCCAT  
TTCGCAGAAATAAGAAGGAGAATAAACTTAGAGAAAAAGAGGAGGCCAAAAGGGGCAAGGTAGTGGCTACTTGC  
AGAAACCTGAAAAATATGTGTGACAAAGCCGCCATAATAAGTGCCAGCCGAGCTGCAGCAGCCCGTCTCAGGGGC  
ACCGCAGCCTCCCCGGGCCCTACGGCCGCCCGCCAGCAGGATGGCTGGAATGGCCTTAGTCATGAGGCTTTTAGA  
ATTGTTTCAAGGCAGGATTATGCGTCAGAAGCAATCAATGGAGCAGCTGGTGGTGTATTATTGGGTACTACCAAC  
TCCTGTGTGGCAGTTATGGAAGGTAAACAAGCAAAGGTGCTGGAGAATGCCGAAGGTGCCAGAACTACCCCTTCA  
GTTGTGGCCTTTACAGCAGATGTACAGAAAGACATTAAAAATATTCCCTTTAAAATTGTCTGTGCCTCCAATGGT  
GATGCCTGGGTTGAGGCTCATGGGAACTGTATTCTCCAAGTCAGATCGGAGCATTGTGTGCGATGAAGATGAAA  
GAGACTGCAGAAAAATTACTTGGGGCACACAGCAAAAAATGCTGTGATCGCAGTCCCAGCTTATTTCAATGACTTG  
CAGAGGCAGGCCACTAAAGATGCTGGCCAGATATCTGGACTGAATGTGCTTCGGGTGATTAATGAACCCACAGCT  
GCTGCTCTTGCCATATGGTCTAGACAAATCAAAAGACAAAGTCATTGCTGTATATGATTTAGGTGGTGGAACTTTT  
GATATTTCTATCCTGGAATTTAGAAAAGGAGTATTCGAGGTGAAATCCACAAATGGGGACACTTTCTTAGGTGGG  
GAAGACTTTGACCAGGCCTTGCTACAGCACATTGTGAAGGAGTTCAAGAGAGAGACGGGGGTTGATTTGACCAA  
GACAACGTGGCATTTCAGAGGGTGTGGGAAGCTGCTGAAAAGGCTAAATGTGAACCTCCTCATCTGTGCAGACT  
GACATCAATTTGCCCTATCTTACAATGGATTCTTCTGGACCCAAGCATTTGAATACAAAGTTGACCCATGCTCAA  
TTTGAAGGGATTGTCACTGATCTAATCAGGAGGACTATCGCTCCATGCCAAAAGCTATGCAAGATGCAGAAGTC  
AGCAAGAGTGATATAGGAGAAGTGATTCTTGTGGAGCCCCCAAGTAAAGCTGTCAATCCTGATGAGGCTGTGGCC  
ATTGGAGCTGCCATTTCAGGGAGATGTGTTGGCCGGCGATGTCACAGATGTGCTGCTCCTTGATGTCAATCCCCTG  
TCTCTGGGTATTGAACTCTGCGAGGTGTCTTTACCAAACCTATTAAATAGGAATACCACTATTCCAACCAAGAAG  
AGCCAGGTATTCTCAACTGCTGCTGATGGGCAGACACAAGTGGAAATTAAAGTGTGTCAGGGTGAGAGAGAGATG  
GCTGGAGACAACAACTCCTTGACAGTTTACTTTGATTGGAATTCACCAGCCCCTCGTGGAGTTCCTCAGATC  
AAAGTTACATTTGACATTGATGCCAATGGGATCATAATGTTTCAGCTAAAGATAAAGGCACAGGACATGAGCAG  
CAGATTGTAATCCAGTCTTCTGGTGGGTAAAGCAAAGATGATGTTGAAAATATGGTTAAAAATGCAGAGAAATAT  
GCTAAGGAAGACCAGCGAAGGAAGGAATGA



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**FIGURE 971**

CGGAGCTGTCCATCAGCACCAAAGGCCGCGGGCGGGCTCAGGGCATGGGGCCGCGGTTCTGGGGCGGGCCGAGCC  
CCGGCTCCTGCGCCTTCCCCTTCCTCAGGCCAGCCCAGATTCCCGGACGCCGCGGGACTGGAGTGCCAGCCGGT  
GTTGGACGTGGAGCGGGCGCCGCCACCGCGCCGACACCATTCTCTCCGGCCCAGCAGCCCCCTTCCTCGCACGACG  
GACTTTCCTTGGACCCAGTCAGTTGGAGCCTCTGGCGCCCCGCAACCCCGGCCCTCGGGCCTCTGCACAGCCT  
CTTTCACCTCAGAAGCTCAGGTCGCCCTCCAGCCCAGCACTATGCCGGGACTGTGGCAACACTGCGGTTCCAGCTG  
CTGCCCCCTGAGCCAGATGATGCCCTTCTGGGGTGCACCTTGTGAACAGCCCCCTGGAGCGCAGGTACCAGGCACTG  
CCGGCCCTCGTCTGCATCATGTGCTGTTTGTGGAGTCGTCTACTGCTTCTTCGGTTACCGCTGCTTCAAGGCA  
GTGCTCTTCTCACTGGGTTGCTGTTTGGCTCGGTGGTCATCTTCCTCCTCTGCTACCGAGAGCGGGTGCTAGAG  
ACACAGCTGAGTGCTGGGGCGAGCGCGGGCATCGCTCTGGGCATCGGGCTGCTCTGCGGGCTGGTGGCCATGCTA  
GTGCGCAGCGTGGGCCCTCTTCCTGGTGGGGCTGCTGCTCGGCCTGCTGCTCGCAGCTGCTGCCCTGCTGGGCTCC  
GCACCTACTACCAGCCAGGCTCCGTGTGGGGTCCACTGGGGCTGTTGCTGGGGGGCGGCCCTGCTCTGTGCCCTG  
CTCACTCTGCGCTGGCCCCGCCACTCACCACCCTGGCCACCGCCGTGACTGGTGCTGCGCTGATCGCCACTGCC  
GCTGACTACTTCGCCGAGCTGCTACTGCTGGGGCGCTACGTGGTGGAGCGACTCCGGGCTGCTCCTGTGCCCCCA  
CTCTGCTGGCGAAGCTGGGGCCCTGCTGGCACTCTGGCCCCCTGCTCAGCCTGATGGGCGTTCTGGTGCAGTGGAGG  
GTGACAGCTGAGGGGGACTCCCACACGGAAGTGGTCATCAGCCGGCAGCGCCGACGCGTGCAACTGATGCGGATT  
CGGCAGCAGGAAGATCGCAAGGAGAAAAGGCGGAAAAGAGACCTCCTCGGGCTCCCCCTCAGAGGTCCCCGGGCT  
CCTCCCAGGCCTGGGCCACCAGACCCTGCTTATCGGCGCAGGCCAGTGCCCATCAAACGCTTCAATGGAGACGTC  
CTCTCCCCGAGCTATATCCAGAGCTTCCGAGACCGGCAGACCGGGAGCTCCCTGAGCTCCTTCATGGCCTCACCC  
ACAGATGCGGACTATGAGTATGGGTCCCGGGGACCTCTGACAGCCTGCTCAGGCCCCCAGTGCGGGTATAGCCA  
TATCTGTCTGTCTAGACTCTGCAGTACCAGCTCTGCCAGCTCGAGGAGGCCTGCTAGGCTGCCACTCAGCCTCC  
TGGCTTTGGCTGTCCCTCTCCCCAGCCTGGAGAGGGCTGGCCTGGTCACTAGAAGGGAGGATTGTCTCAGGCGAG  
TCTTGGCCTGAGAGGAAAGCCCCCTCCAAGCTCCAAGAGGCTCCTGAGGAACTCGGGGTGTGAACCCCATTTGG  
GGTGTGCTCAGGGTTGTGAGTGTGTTGCCCGTGTGTCTGTGTGTATGTGTGTGGGGGTGGGCAGGCTTGGAGGGG  
ACGCTGGGACCCTTGCCCTTAGATTTCTGACTGGTAGGGTTTCTCCAGGCTCAGCCCCACCTCTTCACTCCCTGCC  
AAGGTCCCATGGGCCACCTCCTGCATGTCTCCGCGGAGGGGCTACCTTCCTTCCCATCGCCCTGCCTCGCAGCCA  
GACTCATCTAAGGGTTCTTGTCTTGTCTATGGGGCAAAGTGTAGCATCCCTCACCTGGTCCCCTGGCCTCTGT  
AAAGCCACCAGCCTGAGGGCAGTGGCAGGAGATGGGGGTGGGGGGTGCTGCTCTGGGCTGGGTGGGAAGGGAG  
TTGGGGAGGGGTTTAAATGCACGGTGCATGTCTGGTGTCTGTGATGCCAACCTAGACACCTCATGCTTCTGTCTC  
CCCCACCCACTCTGTTTTACATCTTTTATAAATGTGCCAAAGTGTGTGGCCTCTGCCA

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**FIGURE 972**

MPGTVATLRFQLLPPEPDDAFWGAPCEQPLERRYQALPALVCIMCCLFGVVYCFFGYRCFKAVLFLTGLLFGSVV  
IFLLCYRERVLETQLSAGASAGIALGIGLLCGLVAMLVRSVGLFLVGLLLGLLLAAAALLGSAPYYQPGSVWGPL  
GLLLGGGLLCALLTLRWPRPLTTLATAVTGAALIATAADYFAELLLLGRYVVERLRAAPVPPLCWRSWALLALWP  
LLSLMGVLVQWRVTAEGDSHTEVVISRQRRRVQLMRIRQEDRKEKRRKKRPFRAPLRGPRAPPRPGPPDPAYRR  
RPVPIKRFNGDVLSPSYIQSFRDRQTGSSLSSFMASPTDADYEYGSRGPLTACSGPPVRV

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**FIGURE 973**

CGGAGCACATGCTGAGCGGAGCGGCTGGGGCTGCGCGGCGTGGCGGAGCAGCGCTCGCTCCCTCGCTCACTCGCT  
CGCTCGCAGGGACACACGCAGGGGCTGACAGCTGTGCTGGTGCTGATAAGGGAAGCCACAAGGAGACGATCGAGG  
AGAGAGACAAGCGGCAGCAGAGGCAGCAGCGGCAGAGGCAGCACCAGGGCTGCGGAGCTGCTGGGAGTGGGAGTG  
ACTCCCCACCTCGGGCCCCCACCCTGTCCCTGTCTCTTCCCGCTTGCCCTGAGTTTAGAAGAGCAGCCGCTGC  
CACCCTGCCACTCGGGAGGGCACCAGGGCTGCTGGCTAGGGAGGGACAGGGCAGGGAGGCTCTGGCCAGTCCCA  
GCAGCCGGGGACAGATGCCGATCGAGATTGTGTGCAAAATCAAATTTGCTGAGGAGGATGCGAAACCCAAGGAGA  
AGGAGGCAGGGGATGAGCAGAGCCTCCTCGGGGCTGTTGCCCTGGAGCAGCCCCCGAGACCTGGCCACCTTTG  
CCAGCACCAGCACCCTGCATGGACTGGGCCGGGCTGTGGCCAGGCCCCACGGAAGTGCAGAACCCCTGTGGG  
CACTGGCCCTACTCACCTCGCTGGCTGCCTTCTGTACCAGGCGGCTGGCCTGGCCCGGGGCTACCTGACCCGGC  
CTCACCTGGTGGCAATGGACCCCGCTGCCCCAGCCCCAGTGGCGGGCTTCCCGGCTGTACCCCTCTGCAATATCA  
ACCGCTTCCGGCATTTCGGCACTCAGCGATGCCGACATCTTCCACCTGGCCAATCTGACAGGGCTGCCCCCAAAG  
ACCGGGATGGGCACCGTGC GGCTGGCCTGCGCTACCCAGAGCCTGACATGGTAGACATCTCAACCGCACTGGCC  
ACCAGCTCGCCGACATGCTTAAGAGCTGCAACTTCAGTGGGCATCACTGCTCCGCCAGCAACTTCTCTGTGGTCT  
ATACTCGCTATGGGAAGTGTTACACCTTCAACGCGGACCCGCGGAGCTCGCTGCCAGCCGGGCAGGGGGCATGG  
GCAGTGGCCTGGAGATCATGCTGGACATCCAGCAGGAGGAGTACCTGCCATCTGGAGGGAGACAAATGAGACGT  
CGTTTGAGGCAGGTATTCGGGTGCAGATCCACAGCCAGGAGGAGCCGCCCTACATCCACCAGCTGGGGTTCGGGG  
TGTCGCCAGGCTTCCAGACCTTTGTGTCTGCCAGGAACAGCGGCTGACCTACCTGCCCGAGCCCTGGGGCAACT  
GCCGCGCAGAGAGTGAGCTCAGGGAGCCTGAGCTTCAGGGCTACTCGGCCTACAGTGTGTCTGCCTGCCGGCTGC  
GCTGTGAAAAGGAGGCCGTGCTTCAGCGCTGCCACTGCCGATGGTGCACATGCCAGGCAATGAGACCATCTGCC  
CACCAAATATCTACATCGAGTGTGCAGACCACACTGGACTCCCTGGGTGGGGGCCCTGAGGGCCCGTGTCTTCT  
GCCCCACCCCTGCAACCTGACACGCTATGGGAAAGAGATCTCCATGGTTCAGGATCCCCAACAGGGGCTCAGCCC  
GGTACCTGGCGAGGAAGTACAACCGCAACGAGACCTACATACGGGAGAACTTCTGGTCTTAGATGTCTTCTTTG  
AGGCCCTGACCTCTGAAGCCATGGAGCAGCGAGCAGCCTATGGCCTGTGAGCCCTGCTGGGAGACCTCGGGGGAC  
AGATGGGCCTGTTTATTGGGGCCAGCATCCTCACGTTGCTGGAGATCCTCGACTACATCTATGAGGTGTCTGGG  
ATCGACTGAAGCGGTATGGAGGCGTCCCAAGACCCCCCTGCGGACCTCCACTGGGGGCATCTCCACTTTGGGGC  
TTCAGGAGCTGAAGGAACAGAGTCCCTGCCCAGGAGGTCTCTTTGAAGATTTTGCTTGCTAGGACGGTGTGTGACTG  
AAAGGACCCAGGAGTCTGGGACCCCTCCTGGGATCCCCAGCACATTCTCCTGCTCCTGGGAGAGGCCTGGGGGCG  
GTGCTCACTGGGAGGGCCAGGACTCAGTTCCTGCTCTCATCCTCCCTGCCCTGATGTGAGCTGCTTTGCACAAA  
GGTCTTCTTGTCCACACCCCTTATCCCCAGGCTGGTGGCCGGGAGGGCTGGAGACCAGGCCATGGGGCCCTCAC  
GGAGAGGAAGGGAAGGAAGGAGAGGGAGGGGGAGGATAGAGCCCATCCCAGCCGGGAGGGGGAGCCCTCTGTAC  
ATTTGTAAATATTTAGGGAAAGCCGGGTGGGGGGAGGGGATACAGATGTAGAAGGTGGGTAGGGCTACAGGGGTG  
GGTGATTTAGGGACAGCCAGGGTCCCAGCCCCAATGTGAGCAGGATAGGGAGAGCCCCAGGACTCAGGAGTGTG  
GGCTGGTCTTCTTCTGCCCTCTCCAGGCCAGCTCCCTCTTGGCAGGGGGAGAGGATGGCCAGCAGGCCT  
GGCCAGCTCCAGTTCCCCCTGCACCAGCCCCACCCCTAGAGTCCCTTCTATAGGGAGGGGGCAGGAGACCTTC  
CAGACTTCGGCTGAGCTTGGAGGGTGGGAAGGGAGCCTTCTCAGTCTCTCTCCCTCCAGTCTGATTTTATAAAG  
TGCTGACGAG

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**FIGURE 974**

MP I E I V C K I K F A E E D A K P K E K E A G D E Q S L L G A V A P G A A P R D L A T F A S T S T L H G L G R A C G P G P H G L R R T L W A L A L L  
T S L A A F L Y Q A A G L A R G Y L T R P H L V A M D P A A P A P V A G F P A V T L C N I N R F R H S A L S D A D I F H L A N L T G L P P K D R D G H  
R A A G L R Y P E P D M V D I L N R T G H Q L A D M L K S C N F S G H H C S A S N F S V V Y T R Y G K C Y T F N A D P R S S L P S R A G G M G S G L E  
I M L D I Q Q E E Y L P I W R E T N E T S F E A G I R V Q I H S Q E E P P Y I H Q L G F G V S P G F Q T F V S C Q E Q R L T Y L P Q P W G N C R A E S  
E L R E P E L Q G Y S A Y S V S A C R L R C E K E A V L Q R C H C R M V H M P G N E T I C P P N I Y I E C A D H T L D S L G G G P E G P C F C P T P C  
N L T R Y G K E I S M V R I P N R G S A R Y L A R K Y N R N E T Y I R E N F L V L D V F F E A L T S E A M E Q R A A Y G L S A L L G D L G G Q M G L F  
I G A S I L T L L E I L D Y I Y E V S W D R L K R V W R R P K T P L R T S T G G I S T L G L Q E L K E Q S P C P S L G R A E G G V S S L L P N H H H  
P H G P P G G L F E D F A C

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**FIGURE 975**

CCTCGCCGCATCCACTCTCCGGCCGGCCGCCTGCCCGCCGCCTCCTCCGTGCGCCCGCCAGCCTCGCCCGCGCCG  
TCACCATGAGCCAGGCCTACTCGTCCAGCCAGCGCGTGTCTCCTACCGCCGCACCTTCGGCGGGGGCCCCGGGCT  
TCCCACTCGGCTCCCCGCTGAGTTCGCCCCTGTTCCCGCGGGCGGGTTTCGGCTCTAAGGGCTCCTCCAGCTCGG  
TGACGTCCCGCGTGTACCAAGGTGTCGCGCACGTCCGGCGGGGCGGGGGCCTGGGGTTCGTGCGGGCCAGCCGGC  
TGGGGACCAACCGCACGCCCTCCTCCTACGGCGCAGGCGAGCTGCTGGACTTCTCACTGGCCGACGCGGTGAACC  
AGGAGTTTCTGACCACGCGCACCAACGAGAAGGTGGAGCTGCAGGAGCTCAATGACCGCTTCGCCAACTACATCG  
AGAAGGTGCGCTTCCTGGAGCAGCAGAACGCGGCGCTCGCCGCCGAAGTGAACCGGCTCAAGGGCCGCGAGCCGA  
CGCGAGTGGCCGAGCTCTACGAGGAGGAGCTGCGGGAGCTGCGGCGCCAGGTGGAGGTGCTCACTAACCAGCGCG  
CGCGCGTCGACGTGAGCGCGACAACCTGCTCGACGACCTGCAGCGGCTCAAGGCCAAGCTGCAGGAGGAGATTC  
AGTTGAAGGAAGAAGCAGAGAACAATTTGGCTGCCCTCCGAGCGGACGTGGATGCAGCTACTCTAGCTCGCATTG  
ACCTGGAGCGCAGAATTGAATCTCTCAACGAGGAGATCGCGTTTCCTTAAGAAAGTGCATGAAGAGGAGATCCGTG  
AGTTGCAGGCTCAGCTTCAGGAACAGCAGGTCCAGGTGGAGATGGACATGTCTAAGCCAGACCTCACTGCCGCC  
TCAGGGACATCCGGGCTCAGTATGAGACCATCGCGGCTAAGAACATTTCTGAAGCTGAGGAGTGGTACAAGTCGA  
AGGTGTCAGACCTGACCCAGGCAGCCAACAAGAACAACGACGCCCTGCGCCAGGCCAAGCAGGAGATGATGGAAT  
ACCGACACCAGATCCAGTCTTACACCTGCGAGATTGACGCCCTGAAGGGCACTAACGATTCCCTGATGAGGCAGA  
TGCGGGAATTGGAGGACCGATTTGCCAGTGAGGCCAGTGGCTACCAGGACAACATTGCGCGCCTGGAGGAGGAAA  
TCCGGCACCTCAAGGATGAGATGGCCCCGCATCTGCGCGAGTACCAGGACCTGCTCAACGTGAAGATGGCCCTGG  
ATGTGGAGATTGCCACCTACCGGAAGCTGCTGGAGGGAGAGGAGAGCCGGATCAATCTCCCCATCCAGACCTACT  
CTGCCCTCAACTTCCGAGAAACCAGCCCTGAGCAAAGGGTTCTGAGGTCCATACCAAGAAGACGGTGATGATCA  
AGACCATCGAGACACGGGATGGGGAGGTTCGTAGTGAGGCCACACAGCAGCAGCATGAAGTGCTCTTAAAGACAGA  
GACCCTCTGCCACCAGAGACCGTCTCTACCCCTGTCTCACTGCTCCCTGAAGCCAGCCTTCTTCCATCCCAGGA  
CACCACACCAGCCTCAGTCTCTCCCTCACAGCCTCTGACCCCTCCTCACTGGCCATCCCTCGTGGTCCCCAACA  
GCGACATAGCCCATCCCTGCCTGGTTCACAGGGCATGCCCCGGCCACCTCTGCGGACCCAGCTGTGAGCCTTGGC  
TGTTGGCAGTGAGTGAGCCTGGCTCTTGTGCTGGATGGAGCCCAGGCGGGAGCGGTGGCCCTGTCCCTCCCACCT  
CTGTGACCTCAGGCACTAGCCTTTGGCTCTGGAGACAGCCCCAGAGCAGGGTGTGGGATACTGCAGGGCCAGGA  
CTGAGCCCCGCAGACCTCCCCAGCCCTAGCCCAGGAGAGAGAAAGCCAGGCAGGTAGCCAGGGGGACTAGCCCC  
TGTGGAGACTGGGGGGCTTGAAATTGTCCCCGTGGTCTCTTACTTTCCCTTTCCCCAGCCCAGGGTGGACTTAGAA  
AGCAGGGGCTACAAGAGGGAATCCCCGAAGGTGCTGGAGGTGGGAGCAGGAGATTGAGAAGGAGAGAAAGTGGGT  
GAGATGCTGGAGAAGAGAGGAGAGAGAGAGGCAGAGAGCGGTCTCAGGCTGGTGGGAGGGGGCGCCACCTCCCC  
ACGCCCTCCCCTCCCCTGCTGCAGGGGCTCTGGAGAGAAACAATAAGAGATTACACACAAGCC

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**FIGURE 976**

MSQAYSSSQRVSSYRRTFGGAPGFPLGSPVFPFRAGFGSKGSSSSVTSRVYQVSRTSGGAGGLGSLRASRLG  
TTRTPSSYGAGELLDFSLADAVNQEFLLTTRTNEKVELQELNDRFANYIEKVRFLQQNAALAAEVNRLKGREPTR  
VAELYEEELRELRQVEVLTNQARVDVERDNLDDLQRLKAKLQEEIQLKEEAENNLAAFRADVDAATLARIDL  
ERRIESLNEEIAFLKKVHEEEIRELQQLQEQVQVEMDMSKPDLTAAALRDIRAQYETIAAKNISEAEWYKSKV  
SDLTQAANKNNDALRQAKQEMMEYRHQIQSYTCEIDALKGTNDSLMRQMRELEDRFASEASGYQDNIAARLEEEIR  
HLKDEMARHLREYQDLLNVKMALDVEIATYRKLLEGEESRINLP IQTYSALNFRETSPEQRGSEVHTKKTVMIKT  
IETRDGEVVSEATQQQHEVL

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**FIGURE 977**

GCACGAGGGTGATGAAGGCCTACGAGTGCGGGCGGGCCTGAAGGGGCACGCGGGGGACCTGCAAAGCTAGTGAGG  
GGCGGGGCAGGCGGGCGGGTGGGGGCGGGCCGAGCCCGAGGGCCAGATGAGCGGACACAGCCCCACGCGCGGGGC  
**CATG**CAGGTGGCCATGAACGGTAAGGCCCGCAAAGAGGCGGTGCAGACTGCGGGCTAAGGAACTCCTCAAGTTCGT  
GAACCGGAGTCCCTCTCCTTTCCATGCTGTGGCTGAATGCCGCAACCGCCTTCTCCAGGCTGGCTTCAGTGAAC  
CAAGGAGACTGAGAAATGGAATATTAAGCCCGAGAGCAAGTACTTCATGACCAGGAACTCCTCCACCATCATAGC  
TTTTGCTGTAGGGGGCCAGTACGTTCCCTGGCAATGGCTTCAGCCTCATCGGGGGCCACACGGACAGCCCCTGCCT  
CCGGGTGAAACGTCCGTCTCGCCGCAGCCAGGTGGGCTTCCAGCAAGTCCGTGTGGAGACCTATGGTGGTGGGAT  
CTGGAGCACCTGGTTTGACCGTGACCTGACTCTGGCTGGACGCGTCATTGTCAAGTGCCCTACCTCAGGTCCGGCT  
GGAGCAGCAGCTGGTGCACGTGGAGCGGCCATTCTTCGCATCCACACCTGGCCATCCATCTGCAGCGAAATAT  
CAACGAGAACTTTGGGCCCAACACAGAGATGCATCTAGTCCCATTCTTGCCACAGCCATCCAGGAGGAGCTGGA  
GAAGGGGACTCCTGAGCCAGGGCCTCTCAATGCTGTGGATGAGCGGCACCATTCGGTCCCTCATGTCCCTGCTCTG  
TGCCCATCTGGGGCTGAGCCCCAAGGACATAGTGGAGATGGAGCTCTGCCTTGACAGACCCAGCCTGCGGTCTT  
GGGTGGTGCCTATGATGAGTTCATCTTTGCTCCTCGGCTGGACAATCTGCACAGCTGCTTCTGTGCCCTGCAGGC  
CTTGATAGATTCTGTGCAGGCCCTGGCTCCCTGGCCACAGAGCCTCACGTGCGCATGGTCACACTCTATGACAA  
CGAAGAGGTGGGGTCTGAGAGTGACAGGGAGCACAGTCACTGCTGACAGAGCTGGTGTCTGCGGCGGATCTCAGC  
CTCGTGCCAGCACCCGACAGCCTTCGAGGAAGCCATACCCAAGTCCTTCATGATCAGCGCAGACATGGCCCATGC  
TGTGCATCCCAACTACCTGGACAAGCATGAGGAGAACCACCGGCCTTTATTCCACAAGGGCCCCGTGATCAAGGT  
GAACAGCAAGCAACGCTATGCTTCAAACGCGGTGTCAGAGGCCCTGATCCGAGAGGTGGCCAACAAAGTCAAGGT  
CCCCCTGCAGGATCTCATGGTCCGGAATGACACCCCTGTGGAACCAACATTGGACCTATCTTGGCTTCTCGGCT  
GGGGCTGCGGGTGCTGGATTTAGGCAGCCCCCAACTGGCCATGCACTCTATCCGGGAGATGGCCTGCACCACAGG  
AGTCCTCCAGACCTCACCCCTCTTCAAGGGCTTCTTTGAGCTGTTCCCTTCTCTAAGCCATAATCTCTTAGTGGA  
**TTGA**GCCCTCTTGGAAGACTTCTCTGCCATCCCTTTGCACCTGAGAGGGGAAGTTCTCAGCTGAGCTGAAGCTG  
GATTATTAAAGTGGATTGTCACTCAGAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 978**

MQVAMNGKARKEAVQTAAKELLKFVNRSPSPFHAVAECRNRLQAGFSELKETEKWNIKPESKYFMTRNSSTIIA  
FAVGGQYVPGNGFSLIGAHTDSPCLRVKRRSRRSQVGFQQVGVETYGGGIWSTWFDRLTLAGRVIVKCPTSGRL  
EQQLVHVERPILRIPHLAIHLQRNINENFGPNTEMHLVPILATAIQEELEKGTPEPGPLNAVDERHHSVLMSSLC  
AHLGLSPKDIVEMELCLADTQPAVLGGAYDEFIFAPRLDNLHSCFCALQALIDSCAGPGSLATEPHVRMVTLYDN  
EEVGSESAQGAQSLLTELVLRRISASCQHPTAFEEAIPKSFMISADMAHAVHPNYLDKHEENHRPLFHKGPVIKV  
NSKQRYASNAVSEALIREVANKVKVPLQDLMVRNDTPCGTTIGPILASRLGLRVLDLIGSPQLAMHSIREMACTTG  
VLQTLTLFKGFFELFPSLSHNLVD



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**FIGURE 979**

CTTTGCATTGTTCTCATCCGCCCTCCTTGCTCGCCGCAGCCGCCTCCGCCGCGCGCCTCCTCCGCCGCCGCGGAC  
TCCGGCAGCTTTATCGCCAGAGTCCCTGAACTCTCGCTTTCTTTTAAATCCCCTGCATCGGATCACCGGCGTGCC  
CCACCATGTCAGACGCAGCCGTAGACACCAGCTCCGAAATCACCACCAAGGACTTAAAGGAGAAGAAGGAAGTTG  
TGAAGAGGCAGAAAATGGAAGAGACGCCCCTGCTAACGGGAATGCTAATGAGGAAAATGGGGAGCAGGAGGCTG  
ACAATGAGGTAGACGAAGAAGAGGAAGAAGGTGGGGAGGAAGAGGAGGAGGAAGAAGAAGGTGATGGTGAGGAAG  
AGGATGGAGATGAAGATGAGGAAGCTGAGTCAGCTACGGGCAAGCGGGCAGCTGAAGATGATGAGGATGACGATG  
TCGATACCAAGAAGCAGAAGACCGACGAGGATGACTAGACAGCAAAAAAGGAAAAGTTAAACTAAAAAAAAAAG  
GCCGCCGTGACCTATTCACCTCCACTTCCCGTCTCAGAATCTAAACGTGGTCACCTTCGAGTAGAGAGGCCCGC  
CCGCCCACCGTGGGCAGTGCCACCCGCAGATGACACGCGCTCTCCACCACCAACCCAAACCATGAGAATTTGCA  
ACAGGGGAGGAAAAAAGAACCAAACTTCCAAGGCCCTGCTTTTTTTCTTAAAAGTACTTTAAAAAGGAAATTTG  
TTTGTATTTTTTATTTACATTTTATATTTTGTACATATTGTTAGGGTCAGCCATTTTTTAATGATCTCGGATGAC  
CAAACCAGCCTTCGGAGCGTTCTCTGTCTACTTCTGACTTTACTTGTGGTGTGACCATGTTTATTATAATCTCA  
AAGGAGAAAAAAACCTTGTAAGGCAAAAAATGACAACAGAAAAACAATCTTATTCCGAGCATTCCAGTAAC  
TTTTTGTGTATGTACTTAGCTGTACTATAAGTAGTTGGTTTGTATGAGATGGTTAAAAAGGCCAAAGATAAAAG  
GTTTCTTTTTTTTTCTTTTTTGTCTATGAAGTTGCTGTTTATTTTTTTTGGCCTGTTTGATGTATGTGTGAAAC  
AATGTTGTCCAACAATAACAGG

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**FIGURE 980A**

GCGGCAAGCCCCGCTCAGCCCCCTCTGGCAGGCTCCCGCCAGCGTCGCTGCGGCTCCGGCCCCGGGAGCGAGCGCC  
CGGAGCTCGGAAAGATCGGGCGCCCCGCGGCGGCCCTGGGGGTCTCGGGGGATCCGGGGGTCTCCGGCTGCTCCTCT  
GCCTCCTGCTGCTGAGCAGCCGCCCGGGGGGCTGCAGCGCCGTTAGTGCCACAGGCTGTCTATTTGACCGCAGGC  
TCTGCTCTCACCTGGAAGTCTGTATTCAGGATGGCTTGTGTTGGGCAGTGCCAGGTGGGAGTGGGGCAGGCCCGGC  
CCCTTTTGCAAGTCACCTCCCCAGTTCTCCAACGCTTACAAGGTGTGCTCCGACAACCTCATGTCCCAAGGATTGT  
CCTGGCACGATGACCTCACCCAGTATGTGATCTCTCAGGAGATGGAGCGCATCCCCAGGCTTCGCCCCCAGAGC  
CCCGTCCAAGGGACAGGTCTGGCTTGGCACCCAAGAGACCTGGTCCTGCTGGAGAGCTGCTTTTACAGGACATCC  
CCACTGGCTCCGCCCCCTGCTGCCCAGCATCGGCTTCCACAACCACCAAGTGGGCAAAGGTGGAGCTGGGGCCAGCT  
CCTCTCTGTCCCCTCTGCAGGCTGAGCTGCTCCCGCCTCTCTTGAGACCTGCTGCTGCCCCACAGCCTCCCC  
ACCTTCACTGAGTTACGAACCTGCCTTGCTGCAGCCCTACCTGTTCCACCAGTTTGGCTCCCGTGATGGCTCCA  
GGGTCTCAGAGGGCTCCCCAGGGATGGTCAGTGTGCGCCCCCTGCCCAAGGCTGAAGCCCCCTGCCCTCTTCAGCA  
GAACTGCCTCCAAGGGCATATTTGGGGACCACTTGGCCACTCCTACGGGGACCTTCCAGGGCCTTCACTGCCC  
AGCTTTTTCAAGACTCTGGGCTGCTCTATCTGGCCCAGGAGTTGCCAGCACCCAGCAGGGCCAGGGTGCCAAGGC  
TGCCAGAGCAAGGGAGCAGCAGCCGGGCAGAGGACTCCCCAGAGGGCTATGAGAAGGAAGGACTAGGGGATCGTG  
GAGAGAAGCCTGCTTCCCCAGCTGTGCAGCCAGATGCGGCTCTGCAGAGGCTGGCCGCTGTGCTGGCGGGCTATG  
GGGTAGAGCTGCGTCAGCTGACCCCTGAGCAGCTCTCCACACTCCTGACCCTGCTGCAGCTACTGCCCAAGGGTG  
CAGGAAGAAATCCGGGAGGGGTTGTAAATGTTGGAGCTGATATCAAGAAAACAATGGAGGGGCCGCTGGAGGGCA  
GAGACACAGCAGAGCTTCCAGCCCGCACATCCCCATGCCTGGACACCCCACTGCCAGCCCTACCTCCAGTGAAG  
TCCAGCAGGTGCCAAGCCCTGTCTCCTCTGAGCCTCCCAAAGCTGCCAGACCCCTGTGACACCTGTCTCTGCTAG  
AGAAGAAAAGCCCACTGGGCCAGAGCCAGCCACGGTGGCAGGACAGCCCTCAGCCCGCCAGCAGCAGAGGAAT  
ATGGCTACATCGTCACTGATCAGAAGCCCTGAGCCTGGCTGCAGGAGTGAAGCTGCTGGAGATCCTGGCTGAGC  
ATGTGCACATGTCTCAGGCAGCTTCATCAACATCAGTGTGGTGGGACCAGCCCTCACCTTCCGCATCCGGCACA  
ATGAGCAGAACCTGTCTTTGGCTGATGTGACCCAACAAGCAGGGCTGGTGAAGTCTGAACTGGAAGCACAGACAG  
GGCTCCAAATCTTGACAGACAGGAGTGGGACAGAGGGAGGAGGCAGCTGCAGTCCTTCCCCAACTGCGCACAGCA  
CCTCACCCATGCGCTCAGTGTGCTCACTCTGGTGGCCCTGGCAGGTGTGGCTGGGCTGCTGGTGGCTCTGGCTG  
TGGCTCTGTGTGTGCGGCAGCATGCGCGGCAGCAAGACAAGGAGCGCCTGGCAGCCCTGGGGCCTGAGGGGGCCC  
ATGGTGACACTACCTTTGAGTACCAGGACCTGTGCCGCCAGCACATGGCCACGAAGTCCTTGTTCACCGGGCAG  
AGGGTCCACCGGAGCCTTACGGGTGAGCAGTGTGTCTCTCCAGTTTACGCGACGCAGCCAGGCCAGCCCCAGCT  
CCCACAGCAGCACCCCGTCTGGTGCAGGAGCCGGCCCCAAGCCAACATGGACATCTCCACGGGACACATGATTC  
TGGCATAACATGGAGGATCACCTGCGGAACCGGGACCGCCTTGCCAAGGAGTGGCAGGCCCTCTGTGCCTACCAAG  
CAGAGCCAAACACCTGTGCCACCGCGCAGGGGGAGGGCAACATCAAAAAGAACCGGCATCCTGACTTCTTGCCCT  
ATGACCATGCCCCGATAAACTGAAGGTGGAGAGCAGCCCTTCTCGAGCGATTACATCAACGCCAGCCCCATTA  
TTGAGCATGACCCCTCGGATGCCAGCCTACATAGCCACGCAGGGCCCGCTGTCCCATACCATCGCAGACTTCTGGC  
AGATGGTGTGGGAGAGCGGCTGCACCGTCATCGTCATGCTGACCCCGCTGGTGGAGGATGGTGTCAAGCAGTGTG  
ACCGCTACTGGCCAGATGAGGGTGCCTCCCTCTACCACGTATATGAGGTGAACCTGGTGTGCGGAGCACATCTGGT  
GCGAGGACTTTCTGGTGCAGGCTTCTACCTGAAGAACGTGCAGACCCAGGAGACGCGCACGCTCACGCAGTTCC  
ACTTCTCAGCTGGCCGGCAGAGGGCACACCGGCCCTCCACGCGGCCCTGCTGGACTTCCGCAGGAAGGTGAACA  
AGTGCTACCGGGGCCGCTCCTGCCCCATCATCGTGCAGTGCAGTGTGGTGGGGGAGGACCGGCACCTACATCC  
TCATCGACATGGTCTTGAACCGCATGGCAAAGGAGTGAAGGAGATTGACATCGCTGCCACCCCTGGAGCATGTCC  
GTGACCAGCGCCCTGGCCCTTGTCCGCTCTAAGGACAGTTTGAATTTGCCCTGACAGCCGTGGCGGAGGAAGTGA  
ATGCCATCCTCAAGGCCCTGCCCCAGTGAGACCTTGGGGCCCTTGGCGGGCAGCCCAGCCTCTGTCCCTCTTTG  
CCTGTGTGAGCATCTCTGTGTACCACTCCTCACTGCCCCACCAGCCACCTCTTGGGCATGCTCAGCCCTTCCTA  
GAAGAGTCAGGAAGGGAAAGCCAGAAGGGGCACGCCTGCCAGCCTCGCATGCCAGAGCCTGGGGCATCCAGAG  
CCCAGGGCATCCCATGGGGGTGCTGCAGCCAGGAGGAGAGGAAAGGACATGGGTAGCAATTCTACCCAGAGCCTT  
CTCCTGCCTACATTCCCTGGCCTGGCTCTCCTGTAGCTCTCCTGGGGTTCTGGGAGTTCCCTGAACATCTGTGTG  
TGTCCCCCTATGCTCCAGTATGGAAGAATGGGGTGGAGGGTGCACACCCGGCTCCCCCTGCTTCTCAGCCCCG  
GGCCTGCCTCTGACTCACACTTGGGCGCTCTGCCCTCCCTGGCCTCACGCCCAGCCTCCTCCCACCACCTCCCA  
CCATGCGCTGCTCAACCTCTCTCCTTCTGGCGCAAGAGAACATTTCTAGAAAAAACTACTTTTGTACCAGTGTGA

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**FIGURE 980B**

ATAAAGTTAGTGTGTTGTCTGTGCAGCTGCAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 981**

MRRPRRPGGGLGGSGGLRLLLLCLLLLSSRPGGCSAVSAHGCLFDRRLCSHLEVCIQDGLFGQCQVGVGQARPLLQV  
TSPVLQRLQGVLRQLMSQGLSWHDDLTQYVISQEMERIPRLRPPEPRPRDRSGLAPKRPGPAGELLLQDIPTGSA  
PAAQHRLPQPPVVGKGGAGASSLSPLQAELLPPLEHLLLPPQPPHPSLSYEPALLQPYLFHQFGSRDGSRVSEG  
SPGMVSVGPLPKAEAPALFSRTASKGIFGDHPGHSYGDLPGPSPAQLFQDSGLLYLAQELPAPSRARVPRLPEQG  
SSSRAEDSPEGYEKEGLGDRGEKPASPAVQPDAAALQRLAAGVLAGYGVELRQLTPEQLSTLLTLLQLLPKGAGRNP  
GGVVNVGADIKKMEGPVEGRDTAELPARTSPMPGHPTASPTSSEVQQVPSVPSSEPPKAARPPVTPVLLEKKSP  
LGQSQPTVAGQPSARPAEEYGYIVTDQKPLSLAAGVKLLEILAEHVMSSGSFINISVVGPAITFRIRHNEQNL  
SLADVTQQAGLVKSELEAQTGLQILQTGVGQREEAAVLPQTAHSTSPMRVLLTLVALAGVAGLLVALAVALCV  
RQHARQQDKERLAALGPEGAGDTTTFEYQDLCRQHMAKSLFNRAEGPPEPSRVSSVSSQFSDAAQASPSHSST  
PSWCEEPAQANMDISTGHMILAYMEDHLRNRDLAKEWQALCAYQAEPNTCATAQGEKNKKNRHPDFLPYDHAR  
IKLKVESSPSRSDYINASPIIEHDPRMPAYIATQGPLSHTIADFWQMVWESGCTVIVMLTPLVEDGVKQCDRYWP  
DEGASLYHVYEVNLVSEHIWCEDFLVRSFYLNKVNQTQETRTLTQFHFLSWPAEGTPASTRPLLDFFRRKVNKCYRG  
RSCPIIVHCSDGAGRTGTIYLIDMVLNRMAKGVKEIDIAATLEHVRDQRPGLVRSKDQFEFALTAVAEVNAILK  
ALPQ

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**FIGURE 982**

AGTTTCTACTGAGACCTGTCACCCCGACTCAACGTGAGACGCACCGCCCGGACTCACCATGCGTGAATGCATCTC  
AGTCCACGTGGGGCAGGCAGGTGTCCAGATGGGCAATGCCTGCTGGGAGCTCTATTGCTTGGAACATGGGATTCA  
GCCTGATGGGCAGATGCCCAGTGACAAGACCATTGGTGGAGGGGACGACTCCTTCACCACCTTCTTCTGTGAAAC  
TGGTGTGGAAAACACGTACCCCGGGCAGTTTTTGTGGATCTGGAGCCTACGGTCATTGATGAGATCCGAAATGG  
CCCATAACGACAGCTCTTCCACCCAGAGCAGCTCATCACTGGGAAAGAGGATGCTGCCAACAACCTATGCCCCGTGG  
TCACTATAACCATTTGGCAAGGAGATCATTGACCCAGTGCTGGATCGGATCCGCAAGCTGTCTGACCAGTGCACAGG  
ACTTCAGGGCCTTCTGGTGTTCACAGCTTTGGTGGGGGCACCTGGCTCTGGCTTCACCTCACTCCTGATGGAGCG  
GCTCTCTGTTGACTATGGCAAGAAATCCAAGCTGGAATTCTCCATCTACCCAGCCCCCAGGTGTCTACAGCCGT  
GGTTCGAGCCCTACAACCTCTATCCTGACCACCCACACCACCTGGAGCACTCAGACTGTGCCTTCATGGTGGACAA  
CGAAGCAATCTATGACATCTGCCGCCGCAACCTAGACATCGAGCGCCCAACCTACACCAACCTCAATCGCCTCAT  
TAGCCAAATTGTCTCCTCCATCACAGCTTCTCTGCGCTTTGACGGGGCCCTCAATGTGGACCTGACAGAGTTCCA  
GACCAACCTGGTGCCCTACCCTCGCATCCACTTCCCCCTGGCCACCTATGCACCAGTCATCTCTGCAGAAAAGGC  
ATACCACGAGCAGCTGTGCGTGGCAGAGATACCAATGCCTGCTTTGAGCCTGCCAACCAGATGGTAAAGTGTGA  
TCCCCGGCACGGCAAGTACATGGCCTGCTGCCTGCTGTACCGTGGAGATGTGGTGCCCAAGGATGTCAACGCTGC  
CATTGCCGCCATCAAGACCAAGCGCAGCATTTCAGTTTGTGGACTGGTGCCCCACAGGCTTCAAGGTTGGTATCAA  
CTACCAGCCTCCCACTGTGGTGCCTGGGGGTGACCTGGCCAAGGTGCAGCGTGCCGTGTGCATGCTGAGCAACAC  
GACCGCCATCGCCGAGGCCTGGGCCCGCCTGGACCACAAGTTTCGACCTGATGTATGCCAAGAGGGCGTTTGTGCA  
CTGGTATGTGGGTGAGGGCATGGAGGAGGGTGAGTTTCCGAGGCCCGTGAGGATATGGCTGCCCTGGAGAAGGA  
TTATGAGGAGGTGGGCATCGACTCCTATGAGGACGAGGATGAGGGAGAAGAATAAAGCAGCTGCCTGGAGCCTAT  
TCACTATGTTTATTGCAAAATCCTTTCGAAATAAACAGTTTCCTTGACGCGTTAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAA

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**FIGURE 983**

MRECISVHVGQAGVQMGNACWELYCLEHGIQPDGQMPSDKTIGGGDDSF T T F F C E T G A G K H V P R A V F V D L E P T V I  
DEIRNGPYRQLFHPEQLITGKEDAANNYARGHYTIGKEIIDPVLDRIKLS D Q C T G L Q G F L V F H S F G G G T G S G F T  
SLLMERLSVDYGKKS K L E F S I Y P A P Q V S T A V V E P Y N S I L T T H T T L E H S D C A F M V D N E A I Y D I C R R N L D I E R P T Y T  
NLNRLISQIVSSITASLRFDGALNVDL T E F Q T N L V P Y P R I H F P L A T Y A P V I S A E K A Y H E Q L S V A E I T N A C F E P A N  
Q M V K C D P R H G K Y M A C C L L Y R G D V V P K D V N A A I A A I K T K R S I Q F V D W C P T G F K V G I N Y Q P P T V V P G G D L A K V Q R A V  
C M L S N T T A I A E A W A R L D H K F D L M Y A K R A F V H W Y V G E G M E E G E F S E A R E D M A A L E K D Y E E V G I D S Y E D E D E G E E

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**FIGURE 984**

GGGCCTGCAGTTGGCAGGAGGGTCCCGGGCCAGAGCCAGCGGGGCCGTGCTGAGACGGCGTACGTGCCCTGCGT  
GAGTGCCTGGCGGGCGCGCTGCGCTAGGGGAGTGGGCGGTGAGGCCTGGTCCACGTGCGTCCCTTCCCGGGACC  
CCCGCAGCTTGGCGCCAGCGGCTACGTGAGCCAAGGCACCCGGATGTCCGCGCCCTCTCCGAGTGACCAGTCC  
CGGCCTCCGGTCCCGCAGTGCCCGCAGCCTCGGCCGGCGTCCACGCATTGCCATGGTGACTGTGGGCAACTACTG  
CGAGGCCGAAGGGCCCGTGGGTCCGGCCTGGATGCAGGATGGCCTGAGTCCCTGCTTCTTCTTCACGCTCGTGCC  
CTCGACGCGGATGGCTCTGGGGACTCTGGCCTTGGTGCTGGCTCTTCCCTGCAGACGCCGGGAGCGGCCCGCTGG  
TGCTGATTGCTGTCTTGGGGGGCGGCCCTCGCATCTCTCCCTACGTGCTGCAGCTGCTTCTGGCCACACTTCA  
GGCGGCGCTGCCCCTGGCCGGCCTGGCTGGCCGGGTGGGCACTGCCCGGGGGGGCCCCACTGCCAAGCTATCTACT  
TCTGGCCTCCGTGCTGGAGAGTCTGGCCGGCGCCTGTGGCCTGTGGCTGCTTGTCTGTTGGAGCGGAGCCAGGCACG  
GCAGCGTCTGGCAATGGGCATCTGGATCAAGTTCAGGCACAGCCCTGGTCTCCTGCTCCTCTGGACTGTGGCGTT  
TGCAGCTGAGAACTTGGCCCTGGTGTCTTGGAAACAGCCCACAGTGGTGGTGGGCAAGGGCAGACTTGGGCCAGCA  
GGTTCAGTTTAGCCTGTGGGTGCTGCGGTATGTGGTCTCTGGAGGGCTGTTTGTCTGGGTCTCTGGGGCCCTGG  
ACTTCGTCCCCAGTCTATACATTGCAGGTTTATGAAGAGGACCAAGATGTGGAAGGAGCCAGGTTTCGGTCAGC  
AGCCCAACAGTCTACCTGGCGAGATTTTGGCAGGAAGCTCCGCCTCCTGAGTGGCTACCTGTGGCCTCGAGGGAG  
TCCAGCTCTGCAGCTGGTGGTGTCTATCTGCCTGGGGCTCATGGGTTTGGAAACGGGCACTCAATGTGTTGGTGCC  
TATATTCTATAGGAACATTGTGAACCTTGTGACTGAGAAGGCACCTTGGAACTCTCTGGCCTGGACTGTTACCAG  
TTACGTCTTCTCAAGTTCCTCCAGGGGGTGGCACTGGCAGTACAGGCTTCGTGAGCAACCTGCGCACCTTCTCT  
GTGGATCCGGGTGCAGCAGTTCACGTCTCGCGGGTGGAGCTGCTCATCTTCTCCACCTGCACGAGCTCTCACT  
GCGCTGGCACCTGGGGCGCCGCACAGGGGAGGTGCTGCGGATCGCGGATCGGGGCACATCCAGTGTACAGGGCT  
GCTCAGCTACCTGGTGTTCAATGTCTATCCCCACGCTGGCCGACATCATCATTGGCATCATCTACTTCAGCATGTT  
CTTCAACGCTGGTTTGGCCTCATTGTGTTTCTGTGCATGAGTCTTTACCTCACCTGACCATTGTGGTCACTGA  
GTGGAGAACCAAGTTTTCGTCTGTGCTATGAACACACAGGAGAACGCTACCCGGGCACGAGCAGTGGACTCTCTGCT  
AAACTTCGAGACGGTGAAGTATTACAACGCCGAGAGTTACGAAGTGGAAACGCTATCGAGAGGCCATCATCAAATA  
TCAGGGTTTGGAGTGGAAAGTCGAGCGCTTCACTGGTTTTACTAAATCAGACCCAGAACCTGGTGATTGGGCTCGG  
GCTCCTCGCCGGCTCCCTGCTTTGCGCATACTTTGTCACTGAGCAGAAGCTACAGGTGGGGACTATGTGCTCTT  
TGGCACCTACATTATCCAGCTGTACATGCCCCCTCAATTGGTTTGGCACCTACTACAGGATGATCCAGACCAACTT  
CATTGACATGGAGAACATGTTTGAAGTGTGTAAGAGGAGACAGAAGTGAAGGACCTTCTGGAGCAGGGCCCCCT  
TCGCTTTTCAAGAGGGCCGTATTGAGTTTGAAGACGTGCACTTCAGCTATGCCGATGGGCGGGAGACTCTGCAGGA  
CGTGTCTTTCACTGTGATGCCTGGACAGACACTTGGCCTGGTGGGCCCATCTGGGGCAGGGAAGAGCACAAATTTT  
GCGCCTGCTGTTTCGCTTCTACGACATCAGCTCTGGCTGCATCCGAATAGATGGGCAGGACATTTACAGGTGAC  
CCAGGCCTCTCTCCGGTCTCACATTGGAGTTGTGCCCCAAGACACTGTCCTCTTTAATGACACCATCGCCGACAA  
TATCCGTTACGGCCGTGTACAGCTGGGAATGATGAGGTGGAGGCTGCTGCTCAGGCTGCAGGCATCCATGATGC  
CATTATGGCTTTCCCTGAAGGGTACAGGACACAGGTGGGCGAGCGGGGACTGAAGCTGAGCGGCGGGGAGAAGCA  
GCGCGTCGCCATTGCCCGCACCATCCTCAAGGCTCCGGGCATCATTCTGCTGGATGAGGCAACGTGAGCGCTGGA  
TACATCTAATGAGAGGGCCATCCAGGCTTCTCTGGCCAAAGTCTGTGCCAACCACACCACATCGTAGTGGCACA  
CAGGCTCTCAACTGTGGTCAATGCTGACCAGATCCTCGTCATCAAGGATGGCTGCATCGTGGAGAGGGGACGACA  
CGAGGCTCTGTTGTCCCGAGGTGGGGTGTATGCTGACATGTGGCAGCTGCAGCAGGGACAGGAAGAAACCTCTGA  
AGACACTAAGCCTCAGACCATGGAACGGTGACAAAAGTTTGGCCACTTCCCTCTCAAAGACTAACCAGAAAGGA  
ATAAGATGTGTCCTTTCCCTGGCTTATTTTCATCCTGGTCTTGGGGTATGGTGCTAGCTATGGTAAGGGAAAGG  
GACCTTTCCGAAAAACATCTTTTGGGGAAATAAAAAATGTGGACTGTG

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**FIGURE 985**

GTGCACTTCAGCTATGCCGATGGGTGAGGCCTTCCTTTTGCTTCCTTTGCTTTTCCGTTTCATTTGCACACTGCCT  
TCCTGCTTCTCAGTGCTCTGAATCCCTGCTTTTGGAAAAGAGCCTGGGCAGGGGAGGGGCAGGGCCTACTAGCAG  
CTCTGGTGATGGAAGGTGCCTGCTGAGCAACCCACCTTTCCTTGAGGCGGGAGACTCTGCAGGACGTGTCTTT  
CACTGTGATGCCTGGACAGACACTTGCCCTGGTGAGAGGAGACCCAGCCACTTGGCCCAGATGCCTCAAGCTTCC  
CTCATTCAGTGCCCATGGTAGCTTGTGACCCAGGCTGTGGAGTCAGAGAGCCCAGTCACGATAGGCAACCGGATT  
GAATGGTGACGCTCCATGGACACTGGTGACCTCTTGGAGAGGGAACCTCAAAAGCCAGTGGGCCTCGGCCGGCT  
GCGGTGGCACATGCCTGTAATCCCAGCACTTTGGGAGGCTTAGGTGGCCAGATCACCTAAGGTGGGCCCATCTGG  
GGCAGGGAAGAGCACAATTTGCGCCTGCTGTTTCGCTTCTACGACATCAGCTCTGGCTGCATCCGAATAGATGG  
G



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**FIGURE 986**

GCTGCCCCGGTATCCCCGTGTGGGGCAGGAAGTGGGCTTCCAGATTCCCAGTATCCCCGGTAGGGTCTGCTTCTG  
CTCGCTCGGGAAGGGCGGTGGCCGTCCCATTACTCAACCAACCCTCAACGCACTGGTCCTCCCAGTTCCCTCCCC  
TCAGTGGGTAAACAAACACACACCAGCGTTGACTCGACAGACTCGAAAACAACATCTACTCAGAAAAGTTGTTT  
CTTTCCTATCTCCTTAAACTTTCCCACTTCCACATATCGGAGCTTCTTCCCACCTCGGCCTACTCAAGCATGAGA  
TCGGAGGCGGGAGGGCGGCGACTGGCGGGCGCATGGACCTGACCGGGCTCCTGCTGGACGAAGAAGGCACCTTCT  
CCCTCGCCGGCTTCCAGGACTTCACGTTCTTCCCAGGACACCAGAAGCTGAGTGCCCGGATCCGAAGGAGGCTCT  
ACTATGGCTGGGACTGGGAAGCCGACTGTAGCCTGGAGGAGCTCTCCAGCCCCGGTGGCAGACATTGCTGTGCAAC  
TGCTCCAGAAGGCAGCCCCCAGCCCTATTGCGCGACTCCAGAAGAAATATGTAGCTCATGTGTCCCGGGAGGCAT  
GCATCTCCCCATGTGCTATGATGCTGGCTCTGGTGTACATTGAACGGCTCCGGCACCGAAACCCAGACTACTTGC  
AGCATGTGTATCCTCTGACTTGTTCCTGATCTCCATGATGGTGGCCAGTAAGTACCTCTATGATGAAGGGGAGG  
AGGAGGAGGTCTTCAACGACGAATGGGGAGCTGCTGGGGGTGTGGCCGTGCCACTCTCAATGCCTTGGAGAGGG  
GCTTCCTGAGTGCCATGGATTGGCATCTCTACACTGACCCTCGGGAGATCTTTGAGGTGCTGAGCTGGTTGGAGA  
GCTGTGTGGCTGAGCAGCAGGGACGGTGGCGAGGCTGGTACACCTACACAGACCTGTGTGTGCTGCTGGAGCAGC  
CGACCTGGCAGTTGGCCCTGGGCTCCCTCTGCCAGCGGCTGGTAAAGCTGTCTTGCCTGTTAGCTGTGGCATATG  
TGAGCAGTGTGGCCCTGGCTGTGGCATCGGTGGCCGTAATACATCAGTCTTTGGGGCTGTCTGCATCCCTACAC  
CTGGGCCCGCCTGACCTTGGACTGACCTCCCCTTGCCTCCTGGAGCCCTGCATACCTTCTGTGCCACAATGCCTGC  
CGTCTCTCGCTAATGTCTCCAGCTGCCCTGGAAGGCAGCATGGGGCTGCGGTCACTCTGGGGCAGTCTTCTGGCCT  
CACTGACTCCTCCACCATTGCTTCCCCCAGACCCCCCTGCCCTCCCACTCTTCTTCATAACTGCCACCTTTGCC  
AGAAGCTCCAGAGAGACTCCCCAACCTGCCATGCCTGCCTCCACCCCAACCGTACAGTCCCCACTGCGCTGTCCA  
GCCCCCTGGTACCATACTATGGCCTGGCTCCCCCTGGCCTTGGAGCCCGGTGCTCCTTTCACTTCCTCAGCCTC  
AGCAATGTTCCCTTTTCACTGTATGGAGCTGGCTCGCCTCAAGTCTTTCGTTTTCCAGGCTAGGTAGGGCTGT  
GAGGAATGCATTAAGAGGGTTTGGGAGTTTCTGAGAACCTGGAGGAGCAAAGCTTGATTGAGATCCTGTCTGCCT  
CGCTGGGTCTTGGCAGGTCCCCTGTCTCCTGGGTGGGAGCTTATGGGGTGGTGGGGCAGAAGGACTGAAGGTA  
ATTCACTCCTAGATCGCAGTGGCTGGCTGCTTGGCCAGGACAGTGATGCCGCCAGGGAGAGCTTCCGCTTGGTGA  
CCAGGGACATGTCCCAGATGGACATAGAAGCCCCCTCTCTGCCTCCCTGGGATTTTTTTAGACTTTTACTTTTGATT  
TCCCTAGGATGGAAGAGTATAGGTGGGAGATAAGGGAAGTGGGGTGAGAGGAGAAAGGAAATGTTGGCATGGGCC  
TGTGTGATGTCCCTGAGGCAGAAGAGC

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**FIGURE 987**

MDLTGLLLDEEGTFSLAGFQDFTFLPGHQKLSARIRRRLLYYGWDWEADCSLEELSSPVADIABELLQKAAPSPIR  
RLQKKYVAHVSREACISPCAMMLALVYIERLRHRNPDYLQHVSSDLFLISMMVASKYLYDEGEVEEVFNDEWGA  
AGGVAVPTLNALERGFLSAMDWHLYTDPREIFEVLSWLESCVAEQQGRWRGWYTYTDL CVLLEQPTWQLALGSLC  
QRLVKLSCLLAVAYVSSVALAVASVAVIHQSLGLSCIPTPGPPDLGLTSRCLLEPCIPSVPCLP SLANVSSCLE  
GSMGLRSLWGSLLASLT P P P L P P P D P P A P P T L L H N C H L C Q K L Q R D S P T C H A C L H P N R T V P T A L S S P W Y H T Y G L A P  
PWPWSPVLLSLPQQPQQCSLFSVMELARLKSEVFPG

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**FIGURE 988**

GAAGATATGGCGGCGTCTGCGTCTGCAGCTGCAGGGGAGGAGGACTGGGTCTTCCCTCTGAAGTTGAAGTATTG  
GAGTCCATCTATCTAGATGAACTACAGGTGATTAAAGGAAATGGCAGAACTTCACCATGGGAGATCTACATCACT  
TTGCATCCTGCCACTGCAGAGGACCAGGATTCACAGTATGTCTGCTTCACTCTGGTGCTTCAGGTCCCAGCAGAG  
TATCCCCATGAGGTGCCACAGATCTCTATCCGAAATCCCCGAGGACTTTCAGATGAACAGATCCACACGATCTTA  
CAGGTGCTGGGCCACGTGGCCAAGGCTGGGCTGGGCACTGCCATGCTGTATGAACTCATTGAGAAAGGGAAGGAA  
ATTCTCACAGATAACAACATCCCTCATGGCCAGTGTGTCTATCTGCCTCTATGGTTTCCAGGAGAAGGAGGCCTTT  
ACCAAAACACCCTGTTACCACTACTTCCACTGCCACTGCCTTGCTCGGTACATCCAGCACATGGAGCAAGAGCTG  
AAGGCACAAGGACAGGAGCAGGAACAGGAACGGCAGCATGCTACAACCAAAACAGAAGGCAGTCGGTGTGCAGTGT  
CCAGTGTGCAGAGAGCCCCCTCGTGTATGATCTTGCCCTCACTGAAAGCAGCCCCCTGAACCCCAACAGCCCATGGAG  
CTGTACCAGCCCAGTGCAGAGAGCTTGCGCCAGCAAGAAGAAGCAAGCGGCTCTACCAGAGGCAGCAGGAGCGG  
GGGGGAATCATTGACCTTGAGGCTGAGCGAAACCGATACTTCATCAGCCTTCAGCAGCCTCCTGCCCCTGCGGAA  
CCTGAGTCAGCTGTAGATGTCTCCAAAGGATCCCAACCACCCAGCACCTTGCAGCAGAACTATCCACCTCACCA  
GCCGTCCAATCCACTTTGCCACCTCCTCTGCCTGTGGCGACCCAGCACATATGTGAGAAGATTCCAGGGACCAGG  
TCAAATCAGCAAAGGTTGGGCGAAACCCAGAAAGCTATGCTAGATCCCCCAAGCCAGTCGAGGTCCCTGGCGA  
CAGCCCGAACGGAGGCACCCAAAGGGAGGGGAGTGCCACGCCCCCTAAAGGTACCCGTGACACCCAGGAAGTCCA  
CCTCCTGAGGGGCCCCCTCAAGGAGCCCATGGACCTAAAGCCAGAACCCCATAGCCAAGGAGTTGAAGGTCCTCCA  
CAAGAGAAGGGGCTGGCAGCTGGCAGGGGCCCCCACCCTGCAGGACTCGGGACTGTGTTGCTGGGAGCGCTCT  
AAAGGCCGGACACCCGGTTCTTCCCTACCCTCGCCTGCCTCGGGGCCAGTAGCATACCGGCCTGGTACTCGGAGGG  
AGTCCCTGGGCCTGGAATCTAAGGATGGTTCCCTAGCAGGACTTGGTGGGGGAACAGGGAATTGGGGATGGGAGG  
GAGGCAATAAAGATATTTGGCCTTC

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**FIGURE 989**

MAASASAAAGEEDWVLPSEVEVLESIYLDELQVIKNGRTSPWEIYITLHPATAEDQDSQYVCFTLVLPVPAEYP  
HEVPQISIRNPRGLSDEQIHTILQVLGHVAKAGLGTAMLYELIEKGKEILTDNNIPHGQCVCICLYGFQEKAEFTK  
TPCYHYFCHCLARYIQHMEQELKAQGQEQEQERQHATTKQKAVGVQCPVCREPLVYDLASLKAPEPQQPMELY  
QPSAESLRQQEERKRLYQRQQERGGIIDLEAERNRYFISLQQPPAPAEPESAVDVSKGSQPPSTLAAELSTSPAV  
QSTLPPPLPVATQHICEKIPGTRSNQORLGETQKAMLDPPKPSRGPWRQPERRHHPKGGECHAPKGTRDTQELPPP  
EGPLKEPMDLKPEPHSQGVEGPPQEKGPGSWQGPPPRRTRDCVRWERSKGRTPGSSYPRLPRGQ

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**FIGURE 990**

GGCACGAGGGCCAGCTGCTGTAGAAGAGGGGAGGAAACAAGCCAGTGCAAGGGGAGCAAAAGAGAAAAGGAGCCA  
GGCTGGGCTTCCTGATCCACAGCATCGCAGAGCTCGGGAGGCACAGCTCACAGACACAGGAAACACAGGACTGC  
TATTCTGCTCTCCTGCCCACGGTGATCTGGTGCCAGCTGGTGGAACAGTGGGTGATGGCGTCCCTGCTGCAAGAC  
CAGCTGACCACTGATCAGGACTTGCTGCTGATGCAGGAAGGCATGCCGATGCGCAAGGTGAGGTCCAAAAGCTGG  
AAGAAGCTAAGATACTTCAGACTTCAGAATGACGGCATGACAGTCTGGCATGCACGGCAGGCCAGGGGCAGTGCC  
AAGCCCAGCTTCTCAATCTCTGATGTGGAGACAATACGTAATGGCCATGATTCCGAGTTGCTGCGTAGCCTGGCA  
GAGGAGCTCCCCCTGGAGCAGGGCTTCACCATTGTCTTCCATGGCCGCCGCTCCAACCTGGACCTGATGGCCAAC  
AGTGTTGAGGAGGCCAGATATGGATGCGAGGGCTCCAGCTGTTGGTGATCTTGTCACCAGCATGGACCATCAG  
GAGCGCTGGACCAATGGCTGAGCGATTGGTTTCAACGTGGAGACAAAAATCAGGATGGTAAGATGAGTTTCCAA  
GAAGTTCAGCGGTTATTGCACCTAATGAATGTGGAAATGGACCAAGAATATGCCTTCAGTCTTTTTCAGGCAGCA  
GACACGTCCCAGTCTGGAACCCCTGGAAGGAGAAGAATTCGTACAGTTCTATAAGGCATTGACTAAACGTGCTGAG  
GTGCAGGAACGTGTTTGAAAGTTTTTCAGCTGATGGGCAGAAGCTGACTCTGCTGGAATTTTTGGATTTCTCCAA  
GAGGAGCAGAAGGAGAGAGACTGCACCTCTGAGCTTGCTCTGGAACCTATTGACCGCTATGAACCTTCAGACAGT  
GGCAAACCTGCGGCATGTGCTGAGTATGGATGGCTTCCCTCAGCTACCTCTGCTCTAAGGATGGAGACATCTTCAAC  
CCAGCCTGCCTCCCCATCTATCAGGATATGACTCAACCCCTGAACCACTACTTCATCTGCTCTTCTCATAACACC  
TACCTAGTGGGGGACCAGCTTTGCGGCCAGAGCAGCGTCGAGGGATATATACGGGCCCTGAAGCGGGGGTGCCGC  
TGCGTGGAGGTGGATGTATGGGATGGACCTAGCGGGGAACCTGTCGTTTACCACGGACACACCCTGACCTCCCGC  
ATCCTGTTCAAAGATGTCGTGGCCACAGTAGCACAGTATGCCTTCCAGACATCAGACTACCCAGTCATCTTGTCC  
CTGGAGACCCACTGCAGCTGGGAGCAGCAGCAGACCATGGCCCGTCATCTGACTGAGATCCTGGGGGAGCAGCTG  
CTGAGCACCACTTGATGGGGTGCTGCCCACTCAGCTGCCCTCGCCTGAGGAGCTTCGGAGGAAGATCCTGGTG  
AAGGGGAAGAAGTTAACACTTGAGGAAGACCTGGAATATGAGGAAGAGGAAGCAGAACCTGAGTTGGAAGAGTCA  
GAATTGGCGCTGGAGTCCCAGTTTGAGACTGAGCCTGAGCCCCAGGAGCAGAACCTTCAGAATAAGGACAAAAAG  
AAGAAATCCAAGCCCATCTTGTGTCCAGCCCTCTCTTCCCTGGTTATCTACTTGAAGTCTGTCTCATTCCGCAGC  
TTCACACATTCAAAGGAGCACTACCACTTCTACGAGATATCATCTTTCTCTGAAACCAAGGCCAAGCGCCTCATC  
AAGGAGGCTGGCAATGAGTTTGTGCAGCACAATACTTGCGAGTTAAGCCGIGTGATCCCAGCGGCCTGAGGACA  
GACTCTTCCAATAACAACCCCCAGGAACCTCTGGAATGCAGGCTGCCAGATGGTGGCCATGAATATGCAGACTGCA  
GGGCTTGAAATGGACATCTGTGATGGGCATTTCCGCCAGAATGGCGGCTGTGGCTATGTGCTGAAGCCAGACTTC  
CTGCGTGATATCCAGAGTTCTTTCCACCCTGAGAAGCCCATCAGCCCTTTCAAAGCCCAGACTCTCTTAATCCAG  
GTGATCAGCGGTCAGCAACTCCCCAAAGTGGAACAAGACCAAGAGGGGTCCATTGTGGATCCACTGGTGAAAGTG  
CAGATCTTTGGCGTTCGTCTAGACACAGCAGCGCAGGAGACCAACTATGTGGAGAACAATGGTTTTAATCCATAC  
TGGGGGCAGACACTATGTTTCCGGGTGCTGGTGCCTGAACTTGCCATGCTGCGTTTTGTGGTAATGGATTATGAC  
TGGAATCCCGAAATGACTTTATTGGTCAGTACACCCTGCCTTGACCTGCATGCAACAAGGTTACCGCCACATT  
CACCTGCTGTCCAAAGATGGCATCAGCCTCCGCCCAGCTTCCATCTTTGTGTATATCTGCATCCAGGAAGGCCTG  
GAGGGGGATGAGTCTGAGGGTGGGCATTTACGGGAAGGGTTGGTATGCTGGCTTTAGACGGGGAGAAACATCTG  
GAAGGATGCTCGAGAGAACAAATGGAGGTGGTGAAAATCAAGCTTTGGATTGTGCATTCCCTAGGCACAAAATTAC  
CTCATTCTTCCATAACAAGCAATCTGGGACCTGATTTTCCACCTTTTTCTCTTTCTTCCCTTCCCTTGTGTTTCA  
TAAGCCTTTGGTATCTTTCCCTGCCCTTTTCCCTTTGTGTACTCTATACTGGAGTCCCTTCTTCCCTTGTGCTAG  
GCTCAATCCCATACCGACATCTACAATAATCTTTCCCATCAACTCTGTGTGAAGGCAGGTTGCAACTAGAAATT  
CAGAGGGGCTTGGAATAGAGAAACCTAAAGAAGCATATCCCTCCATCCCCAACTTCCTCAAAGCCCCAAAGCCA  
AGGGAAGGATAAATCAAGGCTCAAGGCTTCCCCAGCAAAGATTAGGGAAAGAGACTTGACCCAGGACTGTACTA  
CGACTCTTAAGAGAACTGCACAGCACTCAAAGTCCCCCACTGGACTGCTTCCCTCCTTAGCCCCACTGGTATAA  
ATACATCTCTCTCAATTTGGCAAAAAAAAAAAAAAAAAA

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**FIGURE 991**

MASLLQDQLTTDQDLLLMQEGMPMRKVRSKSWKKLRYFRLQNDGMTVWHARQARGSAKPSFSISDVETIRNGHDS  
ELLRLAEELPLEQGFTIVFHGRRSNLDLMANSVEEAQIWMRGLQLLVDLVTSMDHQERLDQWLSDFQRGDKNQ  
DGKMSFQEVQRLHLHLMNVEMDQEYAFSLFQAADTSQSGTLEGEFVQFYKALTKRAEVQELFESFSADGQKLTL  
EFLDFLQEEQKERDCTSELALDELIDRYEPSDSGKLRHVLSMDGFLSYLCSKDGDIFNPACLPYQDMTQPLNHYF  
ICSSHNTYLVGDQLCGQSSVEGYIRALKRGCRCEVDVWDGPGSEPVVYHGHTLTSRILFKDQVATVAQYAFQTS  
DYPVILSLETHCSWEQQQTMAHRLTEILGEQLLSTTLDGVLPTQLPSPEELRRKILVKGKKLTLEEDLEYEEEEA  
EPELEESALAESQFETEPEPQEQNLQNKDKKKKSKPILCPALSSLVIYKSVSFRSFTHSKEHYHFYEISSFSE  
TKAKRLIKEAGNEFVQHNTWQLSRVYPSGLRTDSSNYPQELWNAGCMVAMNMQTAGLEMDICDGHFRQNGGCG  
YVLKPDFLRDIQSSFHPEKPI SPFKAQTLLIQVISGQQLPKVDKTKESIVDPLVKVQIFGVRLDTARQETNYVE  
NNGFNPHYWGQTLCFRVLVPELAMLRVVMDDYDWKSRNDFIGQYTLPWTCMQQGYRHIHLLSKDGISLRPASIFVY  
ICIQEGLEGDES

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**FIGURE 992**

TTCTCCCCCAGGCTCACTCACCATGACCAAGCTGAGCGCCCAAGTCAAAGGCTCTCTCAACATCACCACCCCGGG  
GCTGCAGATATGGAGGATCGAGGCCATGCAGATGGTGCCTGTTCTTCCAGCACCTTTGGAAGCTTCTTCGATGG  
TGACTGCTACATCATCTGGCTATCCACAAGACAGCCAGCAGCCTGTCTATGACATCCACTACTGGATTGGCCA  
GGACTCATCCCTGGATGAGCAGGGGGCAGCTGCCATCTACACCACACAGATGGATGACTTCTTGAAGGGCCGGGC  
TGTGCAGCACCGCGAGGTCCAGGGCAACGAGAGCGAGGCCTTCCGAGGCTACTTCAAGCAAGGCCTTGTGATCCG  
GAAAGGGGGCGTGGCTTCTGGCATGAAGCACGTGGAGACCAACTCCTATGACGTCCAGAGGCTGCTGCATGTCAA  
GGGCAAGAGGAACGTGGTAGCTGGAGAGGTAGAGATGTCTTGAAGAGTTTCAACCGAGGGGGATGTTTTCTCTCT  
GGACCTTGGGAAGCTTATCATCCAGTGGAATGGACCGGAAAGCACCCGTATGGAGAGACTCAGGGGCATGACTCT  
GGCCAAGGAGATCCGAGACCAGGAGCGGGGAGGGCGCACCTATGTAGGCGTGGTGGACGGAGAGAATGAATTGGC  
ATCCCCGAAGCTGATGGAGGTGATGAACCACGTGCTGGGCAAGCGCAGGGAGCTGAAGGCGGCCGTGCCCGACAC  
GGTGGTGGAGCCGGCACTCAAGGCTGCACTCAAACCTGTACCATGTGTCTGACTCCGAGGGGAATCTGGTGGTGAG  
GGAAGTCGCCACACGGCCACTGACACAGGACCTGCTCAGTCACGAGGACTGTTACATCCTGGACCAGGGGGGCCT  
GAAGATCTACGTGTGGAAAGGGAAAGAAAGCCAATGAGCAGGAGAAGAAGGGAGCCATGAGCCATGCGCTGAACTT  
CATCAAAGCCAAGCAGTACCCACCAAGCACACAGGTGGAGGTGCAGAATGATGGGGCTGAGTCGGCCGTCTTTCA  
GCAGCTCTTCCAGAAGTGGACAGCGTCCAACCGGACCTCAGGCCTAGGCAAAACCCACACTGTGGGCTCCGTGGC  
CAAAGTGAACAGGTGAAGTTCGATGCCACATCCATGCATGTCAAGCCTCAGGTGGCTGCCCAGCAGAAGATGGT  
AGATGATGGGAGTGGGGAAGTGCAGGTGTGGCGCATTGAGAACCTAGAGCTGGTACCTGTGGATTCCAAGTGGCT  
AGGCCACTTCTATGGGGGCGACTGCTACCTGCTGCTCTACACCTACCTCATCGGCGAGAAGCAGCATTACCTGCT  
CTACGTTTGGCAGGGCAGCCAGGCCAGCCAAGATGAAATTACAGCATCAGCTTATCAAGCCGTCATCCTGGACCA  
GAAGTACAATGGTGAACCAGTCCAGATCCGGGTCCCAATGGGCAAGGAGCCACCTCATCTTATGTCCATCTTCAA  
GGGACGCATGGTGGTCTACCAGGGAGGCACCTCCCGAACTAACAACCTTGGAGACCGGGCCCTCCACACGGCTGTT  
CCAGGTCCAGGGAAGTGGCGCCAACAACACCAAGGCCTTTGAGGTCCAGCGCGGGCCAATTTCTCAATTCCAA  
TGATGTCTTTGTCTCAAGACCCAGTCTTGCTGCTATCTATGGTGTGGGAAGGGTTGTAGCGGGGACGAGCGGGA  
GATGGCCAAGATGGTTGCTGACACCATCTCCCGGACGGAGAAGCAAGTGGTGGTGAAGGGCAGGAGCCAGCCAA  
CTTCTGGATGGCCCTGGGTGGGAAGGCCCCCTATGCCAACACCAAGAGACTACAGGAAGAAAACCTGGTCATCAC  
CCCCGGCTCTTTGAGTGTTCACAACAAGACTGGGCGCTTCTGGCCACAGAGATCCCTGACTTCAATCAGGATGA  
CTTGGAAGAGGATGATGTGTTCTACTAGATGTCTGGGACCAGGTCTTCTTCTGGATTGGGAAACATGCCAACGA  
GGAGGAGAAGAAGGCCGAGCAACCACTGCACAGGAATACCTCAAGACCCATCCAGCGGGCGTGACCCTGAGAC  
CCCCATCATTGTGGTGAAGCAGGGACACGAGCCCCCACCTTCACAGGCTGGTTCTTGGCTTGGGATCCCTTCAA  
GTGGAGTAACACCAAATCCTATGAGGACCTGAAGGCGGAGCTTGGCAACTCTAGGGACTGGAGCCAGATCACTGC  
TGAGGTACAAGCCCCAAAGTGGACGTGTTCAATGCTAACAGCAACCTCAGTTCTGGGCCTCTGCCCATCTTCCC  
CCTGGAGCAGCTAGTGAACAAGCCTGTAGAGGAGCTCCCCGAGGGTGTGGACCCAGCAGGAAGGAGGAACACCT  
GTCCATTGAAGATTTCACTCAGGCCTTTGGGATGACTCCAGCTGCCTTCTCTGCTCTGCCTCGATGGAAGCAACA  
AAACCTCAAGAAAGAAAAAGGACTATTTTGAGAAGAGTAGCTGTGGTTGTAAAGCAGTACCCTACCCTGATTGTA  
GGGTCTCATTTTCTACCGATATTAGTCTACACCAATTGAAGTGAAATTTTGCAGATGTGCCTATGAGCACAAA  
CTTCTGTGGCAAATGCCAGTTTTGTTTAATAATGTACCTATTCCTTCAGAAAGATGATACCCC

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**FIGURE 993**

TGCTCCCTTTTTCTGTCTCTGTCCATGCTGCCATGTTTCTCTGCTGCCAAATTGGGCCCTTGGCCCCCTTCCGGT  
TCTGCTTCCTGGGGGCAGGGTTCCTGCCTTGGACCCCCAGTCTGGGAACGGTGGACATCAAGTGCCTTGCATAGA  
GCCCCCTCTTCCCCGCCCAGCTTTCCCAGGGGCACAGCTCTAGGCTGGGAGGGGAGAACCAGCCCCCTCCCCCTGC  
CCCACCTCCTCTCCCCAGGGTCTAACGGTTAAGGGGACCCACATACCAGTGCCAAGGGGGATGTCAAGTGGTGAT  
GTCGTTGTGCTCCCCCTCCCCCAGAGCGGGTGGGCGGGGGGTGAATATGGTTGGCCTGCATCAGGTGGCCTTCCCA  
TTTAAGTGCCTTCTCTGTGACTGAGAGCCCTAGTGTGATGAGAACTAAAGAGAAAGCCAGACCCCT



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**FIGURE 994**

**ATGG**ACTCTGGGAGGCGTTTGGGCCCAGAGAAGTGGATCCGCCGCTTGCGCCGCATGGAGTCCGAATCGGAAAGC  
GGGGCTGCTGCTGACACCCCCCACTGGAGACCCTAAGCTTCCATGGTGATGAAGAGATTATCGAGGTGGTAGAA  
CTTGATCCCGGTCCGCCGGACCCAGATGACCTGGCCCAGGAGATGGAAGATGTGGACTTTGAGGAAGAAGAGGAG  
GAAGAGGGCAACGAAGAGGGCTGGGTTCCTAGAACCCAGGAAGGGGTGGTCGGCAGCATGGAGGGCCCCGACGAT  
AGCGAGGTACCTTTGCATTGCACTCAGCATCTGTGTTTTGTGTGAGCCTGGACCCCAAGACCAATACCTTGCCA  
GTGACCGGGGGTGAAGATGACAAAGCCTTCGTATGGCGGCTCAGCGATGGGGAGCTGCTCTTTGAGTGTGCAGGC  
CATAAAGACTCTGTGACTTGTGCTGGTTTCAGCCATGACTCCACTCTAGTGGCCACAGGGGACATGAGTGGCCCTC  
TTGAAAGTGTGGCAGGTGGACACTAAGGAGGAGGTCTGGTCCTTTGAAGCGGGAGACCTGGAGTGGATGGAGTGG  
CATCCTCGGGCACCTGTCTGTTGGCGGGCACAGCTGACGGCAACACCTGGATGTGGAAAGTCCCGAATGGTGAC  
TGCAAGACCTTCCAGGGTCCCAACTGCCCAGCCACCTGTGGCCGAGTCCTCCCTGATGGGAAGAGAGCTGTGGTA  
GGCTATGAAGATGGGACCATCAGGATTTGGGACCTGAAGCAGGGAAGCCCTATCCATGTACTGAAAGGGACTGAG  
GGTCACCAGGGCCCACTCACCTGTGTTGCTGCCAACCAGGATGGCAGCTTGATCCTAACTGGCTCTGTGGACTGC  
CAGGCCAAGCTGGTCAGTGCCACCACCGGCAAGGTGGTGGGTGTTTTTAGACCTGAGACTGTGGCCTCCCAGCCC  
AGCCTGGGAGAAGGGGAGGAGAGTGAAGTCCAACCTCGGTGGAGTCCTTGGGCTTCTGCAGTGTGATGCCCCTGGCA  
GCTGTTGGCTACCTGGATGGGACCTTGGCCATCTATGACCTGGCTACGCAGACTCTTAGGCATCAGTGTGAGCAC  
CAGTCGGGCATCGTGCAGCTGCTGTGGGAGGCAGGCACTGCCGTGGTATATACCTGCAGCCTGGATGGCATCGTG  
CGCCTCTGGGACGCCCCGACCGGCCGCCTGCTTACTGACTACCGGGGCCACACGGCTGAGATCCTGGACTTTGCC  
CTCAGCAAAGATGCCTCCCTGGTGGTGACCACGTCAGGAGACCACAAAGCGAAAGTATTTTGTGTCCAAAGGCCT  
GACCGT**TAA**TGGCTGCAGCCCCTGCCTGTGTGTCTGGTGTGAGGGGACGAAGGGACCCCTGCCCCCTGTCTGCCA  
GCAGAGGCAGTAGGGCACAGAGGGAAGAGGAGGGTGGGGCCCTGGATGACTTTCCAGCCTCTTCAACTGACTTGC  
TCCCCCTCTCCTTTTCTTCTTTAGAGACCCAGCCCAGGGCCCTCCACCCCTTGCCAGACCTGGTGGGCCCTTC  
AGAGGGAGGGGTGGACCTGTTTCTCTTTCACTTTTCACTTTGCTGGTGTGAGCCATGGGGTGTGTATTTGTATGTGG  
GGAGTAGGTGTTTGAAGTTCCCGTTCTTTCCCTTCCCAAGTCTCTGGGGGTGGAAAGGAGGAAGAGATACTAGTT  
AAAGATTTTAAAAATGTAAATAAAATATACTTCCCAG

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**FIGURE 995**

MDSGRRLGPEKWIRRLRRMESESESGAAADTPPLETLSFHGDEEIIIEVVELDPGPPDPDDLAQEMEDVDFEEEE  
EEGNEEGWVLEPQEGVVGSMEGPDDSEVTFALHSASVFCVSLDPKTNLAVTGGEDDKAFVWRLSDGELLFECAG  
HKDSVTCAGFSHDSTLVATGDMSGLLKVWQVDTKEEVWSFEAGDLEWMEWHPRAPVLLAGTADGNTWMWKVPNGD  
CKTFQGPNCPATCGRVLPDGKRAVVGIEDGTIRIWDLKQGSPIHVLKGTEGHQGPLTCVAANQDGSIIITGSVDC  
QAKLVSATTGKVVGVRPETVASQPSLGEGESESESNVESLGFCVMPLAAVGYLDGTLAIYDLATQTLRHQCQH  
QSGIVQLLWEAGTAVVYTCSLDGIVRLWDARTGRLLTDYRGHTAEILDFALSKDASLVVTTSGDHHKAKVFCVQRP  
DR

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**FIGURE 996**

GGCACGAGCTCTCCCTCCGTCCTTGCCCTCCCTTACCCACCCTCACCGGCCCTTGTTTCTCCTTCCCCTGGGGGCA  
GCCGCCGCCATGATCCTGCTGGAGGTGAACAACCGCATCATCGAGGAGACGCTCGCGCTCAAGTTCGAGAACGCG  
GCCGCCGGAAACAAACCGGAAGCAGTAGAAGTAACATTTGCAGATTTTCGATGGGGTCCTCTATCATATTTCAAAT  
CCTAATGGAGACAAAACAAAAGTGATGGTCAGTATTTCTTTGAAATTCTACAAGGAAC TTCAGGCACATGGTGCT  
GATGAGTTATTAAGAGGGGTGTACGGGAGTTTCTTGGTAAATCCAGAATCAGGATACAATGTCTCTTTGCTATAT  
GACCTTGAAAATCTTCCGGCATCCAAGGATTCCATTGTGCATCAAGCTGGCATGTTGAAGCGAAATTGTTTTGCC  
TCTGTCTTTGAAAATACTTCCAATTCCAAGAAGAGGGCAAGGAAGGAGAGAACAGGGCAGTTATCCATTATAGG  
GATGATGAGACCATGTATGTTGAGTCTAAAAAGGACAGAGTCACAGTAGTCTTCAGCACAGTGTTTAAGGATGAC  
GACGATGTGGTCATTGGAAAGGTGTTTCATGCAGGAGTTCAAAGAAGGACGCAGAGCCAGCCACACAGCCCCACAG  
GTCCTCTTTAGCCACAGGGAACCTCCTCTGGAGCTGAAAGACACAGACGCCGCTGTGGGTGACAACATTGGCTAC  
ATTACCTTTGTGCTGTTCCCTCGTCACACCAATGCCAGTGCTCGAGACAACACCATCAACCTGATCCACACGTT  
CGGGACTACCTGCACTACCACATCAAGTGCTCTAAGGCCTATATTCACACACGTATGCGGGCGAAAACGTCTGAC  
TTCCTCAAGGTGCTGAACCGCGCACGCCCAGATGCCGAGAAAAAAGAAATGAAAACAATCACGGGGAAGACGTTT  
TCATCCCGCTAATCTTGGAATAAGAGGAGGAAGCGGCTGGCAACTGAAGGCTGGAACACTTGCTACTGGATAAT  
CGTAGCTTTTAATGTTGCGCCTCTTCAGGTTCTTAAGGGATTCTCCGTTTTGGTTCCATTTTGTACACGTTTGGA  
AAATAATCTGCAGAAACGAGCTGTGCTTGCAAAGACTTCATAGTTCCCAAGAATTAAAAAAAAAAAAAAAAAAAA

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**FIGURE 997**

MILLEVNNRIIEETLALKFENAAAGNKPEAVEVTFADFDGVLYHISNPNGDKTKVMVSISLKFYKELQAHGADEL  
LKRVGSGFLVNPESGYNVSLLYDLENLPASKDSIVHQAGMLKRNCFASVFEKYFQFQEEGKEGENRAVIHYRDDE  
TMYVESKKDRVTVVFTVFKDDDDVVIGKVMQEFKEGRRASHTAPQVLFSSHREPPLELKDTDAVGDNIGYITF  
VLFPRHTNASARDNTINLIHTFRDYLHYHIKCSKAYIHTRMRAKTSDFLKVLNRARPDAEKKEMKTIITGKTFSSR

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**FIGURE 998**

GCGGCGGCGAGAGGATGAACAACAAGTTCGACGCTTTGAAAGATGATGACAGTGGGGACCATGATCAGAATGAAG  
AAAACAGCACACAGAAAGATGGTGAGAAGGAAAAACGGAACGAGACAAGAATCAGAGCAGTAGCAAGAGAAAGG  
CTGTTGTCCCTGGACCGGCAGAGCATCCCCTGCAGTACAACCTACACTTTTTGGTACTCCAGGAGAACCCCCGGCC  
GTCCACGAGCTCACAGAGCTATGAACAGAATATCAAACAGATTGGCACCTTTGCCTCTGTGGAGCAGTTCTGGA  
GGTTTTATAGCCACATGGTACGTCCTGGGGACCTGACAGGCCACAGTGACTTCCATCTCTTCAAAGAAGGAATTA  
AACCCATGTGGGAGGATGATGCAAATAAAAAATGGTGGCAAGTGGATTATTCGGCTGCGGAAGGGCTTGGCCTCCC  
GTTGCTGGGAGAATCTCATTTTGGCCATGCTGGGGGAACAGTTCATGGTTGGGGAGGAGATCTGTGGGGCTGTGG  
TGTCTGTCCGCTTTCAGGAAGACATTATTTCAATATGGAATAAGACTGCCAGTGACCAAGCAACCACAGCCCGAA  
TCCGGGACACACTTCGGCGAGTGCTTAACCTACCTCCCAACACCATTATGGAATACAAAACCTCACACCGACAGCA  
TCAAATGCCAGGCAGGCTGGGCCCCCAAAGGCTCCTTTTTCAAACCTCTGGAAGCCGCGGTTGAATGTGCCAT  
GACCTCTCCCTCTCTGGATGGCACCATCATTTGAAGCTGGCGTCATCGGAGTCTGTTGTTCTGTTGGCGTGCTAC  
CTGGAAGATCCTTCTGTGGTGGACAAGAGGAATTGGAAGAGCATTTTATGTTTTAAGAACAGGCTGACACGCAGC  
AGCTACAACAACAGCTGAGATCACTTAATAAATGGTGCTAAACTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 999**

MNNKFDALKDDDDSGDHDQNEENSTQKDGEKEKTERDKNQSSSKRKAVVPGPAEHPLQYNYTFWYSRRTPGRPTSS  
QSYEQNIKQIGTFASVEQFWRFYSHMVRPGDLTGHSDFHLFKEGIKPMWEDDANKNGGKWIIRLRKGLASRCWEN  
LILAMLGEQFMVGEEICGAVSVRFQEDIISIWNKTASDQATTARIRDTLRRVLNLPNTIMEYKTHDTSIKMPG  
RLGPQRLLFQNLWKPRLNVP

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**FIGURE 1000**

GGCACGAGGAGAGCCTCGAGCCTGCGAGGAGCGCGCCGCCCGCCAGCTCCCTGCGTCCCGTCCCGCGTCCCGCGG  
TTCCCGCGTCCTGCGATCCGCCGCC**ATG**GCCAGTGAGGAGCTGGCGTGCAAGCTGGAGCGCCGGCTGCGGCGCGA  
GGAGGCCGAGGAGAGTGGCCCCAGCTGGCTCCCTCGGCGCCCCAGCCCCGGAGCCCAAGCCCGAGCCCGAGCC  
TCCCGCCCGTGCGCCACGGCCAGCGCCGACGCGGAGCTGAGCGCCCAGCTGAGCCGGCGGGCTGGACATCAACGA  
GGGCGCTGCGCGGCCCCGGCGCTGCAGGGTCTTCAACCCCTACACGGAGTTCCCGGAGTTCAGCCGCCGCCTCAT  
CAAGGACCTGGAGAGCATGTTCAAACCTGTATGACGCTGGGCGGGATGGCTTCATCGACCTGATGGAGCTGAAGCT  
GATGATGGAGAAGCTGGGGGCCCCCAGACCCACCTGGGCCTGAAGAGCATGATCAAGGAGGTGGATGAGGACTT  
CGATGGCAAGCTCAGCTTCCGGGAGTTCCTGCTCATTTTCCACAAGGCCGCGGCAGGGGAGCTGCAGGAGGACAG  
TGGGCTGATGGCGCTGGCAAAGCTTTCTGAGATCGATGTGGCCCTGGAGGGTGTCAAAGGTGCCAAGAACTTCTT  
TGAAGCCAAGGTCCAAGCCTTGTCATCGGCCAGTAAGTTTGAAGCAGAGTTGAAAGCTGAGCAAGATGAGCGGAA  
GCGGGAGGAGGAGGAGAGGCGGCTCCGCCAGGCAGCCTTCCAGAACTCAAGGCCAACTTCAATACAT**AGT**CTCTG  
CTGACCTTGCCCTCTGCCACAGCTGTGCCTCACAGATGCCCCGAGAAGAGATGACTAGGCATCTTCATCACTGC  
TGTCGGTCCCCCTCCCTGAGCCAGCATCTCCATCCACCACCCCGTGCCAGCTCCCGTGCCAGCCTTCATTCCCTCC  
AGTGTCCAAGCCCCCTCCAGGAGGGTCTGGGGTGGGCCAGATGCCTGCCACCTCTGTCTCCTGCCTCTGCTCCT  
CTGCCCTTCTTATAGCCAGAACTTGTATCTTCTCAGCAACCTTCACTTTGTCTTGTCCCTTTACCATTCCCCAT  
CAAAGAGTAGTCTGCTATATCAATTTGTGTAGATATGTCTGTCTTTTGGGTCCTCAGAGAAAATGCCATTTTC  
TCGGAGAATTCTCTGCACTCCTCTCTGCTTACATTCAACTTCCCTGTTCTCATCTTTGGTAGGATTCTGCCAGT  
TGCTTTTGCATCTTCTGTTCCCTGGGTAATGGTGGGTCTTAATGGAGGCTGGGTGGACCACTGCCCGTCCACTCTT  
CAACAGGAGGAACAGCATGCCACCACAGTAACACACATTAGAGAAAGGACAGAGGTCTGCTCCTTCCCTGCCACCT  
TTCTCCTGGCCCCCTTAGCATTCCCCCAGTCCCTCCCTCTTACCTTGCTCCGTCTATGTCTTCCAGCTCAGCCT  
TTTCCCCACTCTTAAATACTGTACTACTTCACTGTAAGAACGAAAGAATAGTTAGGATACCAATGAGTAAAAGGG  
TTCCTGTTCACTCTGACTCTGTGCAAATTGTATTACAGTAGACCGCTGACGTTCCCAAGTGACAGATCCAGGGCC  
TTTCAAACATCCCCAAAGTCATGGCCATACTACCATTAGCCAGTTTCTAACATCTGTTTCAGGGTATCCAGCTG  
TAGATGTTCTTATCCCCCATACTTGTGAGTTATTGGGGTTGCTCACAAATACTAGGGGTTTTTGTGTATTTTAA  
ACAAATATATCCTAATGTCATATTTATTCTCTTTTGTAACTGCTGTCTTTACAATAAAGAAATCATCTGCCTTTC  
TAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1001**

MASEELACKLERRLRREEAESGPQLAPLGAPAPEPKPEPEPPARAPTASADAELSAQLSRRLDINEGAARPRRC  
RVFNPYTEFPFESRRLIKDLESMFKLYDAGRDFIDLMELKLMMKLGAPQTHLGLKSMIKEVDEDFDGKLSFRE  
FLLIFHKAAAGELQEDSGLMALAKLSEIDVALEGVKGAKNFFFEAKVQALSSASKFEAELKAEQDERKREEEERRL  
RQAAFQKLKANFNT



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**FIGURE 1002**

ATGGTCCCCCTGCTGGAACCATGGCAACATCACCCGCTCCAAGGCGGAGGAGCTGCTTTCCAGGACAGGCAAGGAC  
GGGAGCTTCCTCGTGCGTGCCAGCGAGTCCATCTCCCGGGCATAACGCGCTCTGCGTGCTGTATCGGAATTGCGTT  
TACACTTACAGAATTCTGCCCCAATGAAGATGATAAATTCACGTGTTTCAAGAAATCTGAACCTGACTTCAGCCGATAC  
TGGCAGAGAAAGGGTGTAACGATGAGGAAGGAAGTGCACGCGCAGGATGCAGTAGTAGACAGGGAGCTGGACTC  
AAGGTGTGGGGAGACCACAGGCAAGTCCCTGGAGGCAAAAATCCTCCAGAAGTTGTCAAGAGGGAGAGCGTGGTG  
AGCAGAACGCCCTCAGGAAGACAGCTTATGAGGATGGAAGGAATTGCTTCGAGGAGCGATGTGATTGA

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**FIGURE 1003**

MVPCWNHGNI TRSKAEELLSRTGKDG SFLVRASESISRAYALCVLYRNCVYTYRILPNEDDKFTVQKSEPDFSRY  
WQRKGVNDEEGSARAGCSSRQGAGLKVWGDHRQVPGGKNPPEVVKRESVVSRTPLRKTAYEDGRNCFEERCD

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**FIGURE 1004**

CTTCGGGTGTACGTGCTCCGGGATCTTCAGCACCCGCGGCCGCGCATCGCCGTCGCTTGGCTTCTTCTGGACTCAT  
CTGCGCCACTTGTCCGCTTCACACTCCGCGGCCATCATGTTGAAGCTCGCGAAGGCAGGTAAAAATCAAGGTGAC  
CCCAAGAAAATGGCTCCTCCTCCAAAGGAGGTAGAAGAAGATAGTGAAGATGAGGAAATGTCAGAAGATGAAGAA  
GATGATAGCAGTGGAGAAGAGGTGCTCATACTCAGAAGAAAGGCAAGAAGGCTGCTGCAACCTCAGCAAAGAAG  
GTGGTCGTTTCCCCAACAAAAAGGTTGCAGTTGCCACACCAGCCAAGAAGCAGCTGTCACTCCAGGCAAAAAG  
GCAGCAGCAACACCTGCCAAGAAGACAGTTACACCAGCCAAGCAGTTACCACACCTGGCAAGAAGGGAGCCACA  
CCAGGCAAAGCATTGGTAGCAACTCCTGGTAAGAAGGTGCTGCCATCCCAGCCAAGGGGGCAAAGAATGGCAAG  
AATGCCAAGAAGGAAGACAGTGATGAAGAGGAGGATGATGACAGTGAGGAGGATGAGGAGGATGACGAGGACGAG  
GATGAGGATGAAGATGAAATTGAACCAGCAGCGATGAAAGCAGCAGCTGCTGCCCCCTGCCTCAGAGGATGAGGAC  
GATGAGGATGACGAAGATGATGAGGATGACGATGACGATGAGGAAGATGACTCTGAAGAAGAAGCTATGGAGACT  
ACACCAGCCAAGGAAAGAAAGCTGCAAAAGTTGTTCTGTGAAAGCCAAGAACGTGGCTGAGGATGAAGATGAA  
GAAGAGGATGATGAGGACGAGGATGACGACGACGACGAAGATGATGAAGATGATGATGATGAAGATGATGAGGAG  
GAGGAAGAAGAGGAGGAGGAAGAGCCTGTCAAAGAAGCACCTGGAAAACGAAAGAAGGAAATGGCCAAACAGAAA  
GCAGCTCCTGAAGCCAAGAAACAGAAAGTGAAGGCACAGAACCGACTACGGCTTTCAATCTCTTTGTTGGAAAC  
CTAAACTTTAACAATCTGCTCCTGAATTAAAACTGGTATCAGCGATGTTTTTGTCTAAAAATGATCTTGCTGTT  
GTGGATGTCAGAATTGGTATGACTAGGAAATTTGGTTATGIGGATTTTGAATCTGCTGAAGACCTGGAGAAAGCG  
TTGGAACCTACTGGTTTGAAAGTCTTTGGCAATGAAATTAACTAGAGAAACCAAAGGAAAAGACAGTAAGAAA  
GAGCGAGATGCGAGAACACTTTTTGGCTAAAAATCTCCCTTACAAAGTCACTCAGGATGAATTGAAAGAAGTGT  
GAAGATGCTGCGGAGATCAGATTAGTCAGCAAGGATGGGAAAAGTAAAGGGATTGCTTATATTGAATTTAAGACA  
GAAGCTGATGCAGAGAAAACCTTTGAAGAAAAGCAGGGAACAGAGATCGATGGGCGATCTATTTCCCTGTACTAT  
ACTGGAGAGAAAGGTCAAAATCAAGACTATAGAGGTGGAAAGAATAGCACTTGGAGTGGTGAATCAAAAACCTCTG  
GTTTTAAGCAACCTCTCCTACAGTGCAACAGAAGAACTCTTCAGGAAGTATTTGAGAAAGCAACTTTTATCAAA  
GTACCCCAGAACCAAATGGCAAATCTAAAGGGTATGCATTTATAGAGTTTGCTTCATTGCAAGACGCTAAAGAA  
GCTTTAAATTCCTGTAATAAAAGGGAAATTGAGGGCAGAGCAATCAGGCTGGAGTTGCAAGGACCCAGGGGATCA  
CCTAATGCCAGAAGCCAGCCATCCAAAACCTGTGTTTGTCAAAGGCCTGTCTGAGGATACCACTGAAGAGACATTA  
AAGGAGTCATTTGACGGCTCCGTTCCGGCAAGGATAGTTACTGACCGGAAACTGGGTCTCCAAAGGGTTTGGT  
TTTGTAGACTTCAACAGTGAGGAGGATGCCAAAGCTGCCAAGGAGGCCATGGAAGACGGTGAAATTGATGGAAAT  
AAAGTTACCTTGGACTGGGCCAAACCTAAGGGTGAAGGTGGCTTCGGGGGTCGTGGTGGAGGCAGAGCGGCTTT  
GGAGGACGAGGTGGTGGTAGAGGAGGCCGAGGAGGATTTGGTGGCAGAGGCCGGGGAGGCTTTGGAGGGCGAGGA  
GGCTTCCGAGGAGGCAGAGGAGGAGGAGGTGACCACAAGCCACAAGGAAAGAAGACGAAGTTTGAATAGCTTCTG  
TCCCTCTGCTTTCCCTTTTCCATTTGAAAGAAAGGACTCTGGGGTTTTTACTGTTACCTGATCAATGACAGAGCC  
TTCTGAGGACATTCCAAGACAGTATACAGTCCTGTGCTCCTTGGAATCCGTCTAGTTAACATTTCAAGGGCA  
ATACCGTGTTGGTTTTGACTGGATATTATATAAACTTTTTAAAGAGTTGAGTGATAGAGCTAACCCCTTATCTGT  
AAGTTTTGAATTTATATTGTTTCATCCCATGTACAAAACATTTTTTCCTAC



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**FIGURE 1006**

TGAACTGAGCGGCCCTGAGCTGACAGATACACTGCGCAGCTGGAACGGCGAGCGAGCCGACGGGCGAGTGAGGG  
GCGCAGCCATGATCACCTCGGCCGCTGGAATTATTTCTCTTCTGGATGAAGATGAACCACAGCTTAAGGAATTTG  
CACTACACAAATTGAATGCAGTTGTTAATGACTTCTGGGCAGAAATTTCCGAGTCCGTAGACAAAATAGAGGTTT  
TATACGAAGATGAAGGTTTCCGGAGTCGGCAGTTTGCAGCCTTAGTGGCATCTAAAGTATTTTATCACCTGGGGG  
CTTTTGAGGAGTCTCTGAATTATGCTCTTGGAGCAGGGGACCTCTTCAATGTCAATGATAACTCTGAATATGTGG  
AACTATTATAGCAAAATGCATTGATCACTACACCAAAACAATGTGTGGAATGCAGATTTGCCTGAAGGAGAAA  
AAAAACCAATTGACCAGAGATTGGAAGGCATCGTAAATAAAATGTTCCAGCGATGTCTAGATGATCACAAGTATA  
AACAGGCTATTGGCATTGCTCTGGAGACACGAAGACTGGACGTCTTTGAAAAGACCATACTGGAGTCGAATGATG  
TCCCAGGAATGTTAGCTTATAGCCTTAAGCTCTGCATGTCTTTAATGCAGAATAAACAGTTTCGGAATAAAGTAC  
TAAGAGTTCTAGTTAAATCTACATGAACTTGGAGAAACCTGATTTTCATCAATGTTTGTGAGTGCTTAATTTTCT  
TAGATGATCCTCAGGCTGTGAGTGATATCTTAGAGAACTGGTAAAGGAAGACAACCTCCTGATGGCATATCAGA  
TTTGTTTTGATTGTATGAAAGTGCTAGCCAGCAGTTTTTGTCTATCTGTAATCCAGAATCTTCGAACTGTTGGCA  
CCCCTATTGCTTCTGTGCCTGGATCCACTAATACGGGTACTGTTCCGGGATCAGAGAAAGACAGTGACTCGATGG  
AAACAGAAGAAAAGACAAGCAGTGCAATTTGTAGGAAAGACACCAGAAGCCAGTCCAGAGCCTAAGGACCAGACTT  
TGAAAATGATTAATAATTTTAAGTGGTGAAATGGCTATTGAGTTACATCTGCAGTTCTTAATACGAAACAATAATA  
CAGACCTCATGATTCTAAAAAACACAAAGGATGCAGTACGGAATTCTGTATGTCATACTGCAACCGTTATAGCAA  
ACTCTTTTATGCACTGTGGGACAACCAGTGACCAGTTTCTTAGAGATAATTTGGAATGGTTAGCCAGAGCCACTA  
ACTGGGCAAAATTTACTGCTACAGCCAGTTTGGGTGTAATTCATAAGGGTCATGAAAAGAAGCATTACAGTTAA  
TGGCAACATACCTTCCCAAGGATACTTCTCCAGGATCAGCCTATCAGGAAGGTGGAGGTCTCTATGCACTAGGTC  
TTATTCATGCCAATCATGGTGGTGATATAATTGACTATCTGCTTAATCAGCTTAAGAACGCCAGCAATGATATCG  
TTAGACACGGTGGCAGTCTGGGCCTTGGTTTGGCAGCCATGGGAACTGCACGTCAAGATGTTTATGATTTGCTAA  
AAACAAACCTTTATCAGGATGATGCAGTAACAGGGGAAGCAGCTGGCCTGGCCCTAGGTTTGGTTATGTTGGGCT  
CTAAAAATGCTCAGGCTATTGAGGACATGGTTGGTTATGCACAAGAACTCAACATGAGAAGATTCTGCGTGGTC  
TTGCAGTTGGCATAGCTTTAGTAATGTATGGGAGGATGGAAGAGGCTGATGCTCTCATTGAATCTCTCTGTCTGTG  
ACAAGGACCCCAATTCTTCGAAGGTCTGGAATGTATACTGTAGCCATGGCTTATTGTGGCTCTGGTAACAACAAAG  
CAATTCGACGCCTGCTACATGTTGCTGTAAAGTGATGTTAATGATGATGTCAGGAGGGCAGCAGTAGAATCACTTG  
GGTTCAATCTATTCAGAACCCCTGAACAGTGCCCAAGTGTGTCTCTTTGTTGTGAGAGAGTTACAACCCCTCATG  
TGCGCTACGGAGCTGCAATGGCCTTGGGGATATGCTGTGCTGGTACAGGAAACAAGGAAGCCATTAATTTGCTAG  
AACCAATGACAAACGACCCCGTGAACCTACGTGAGGCAAGGGGCACTCATAGCTTCAGCTCTCATCATGATCCAGC  
AGACTGAAATCACTTGTCCAAAGGTGAATCAGTTCAGACAGCTGTATTCCAAAGTCATCAATGATAAGCATGATG  
ATGTCATGGCCAAGTTTGGCGCTATTCTGGCCCAGGGCATACTGGATGCAGGTGGTCATAATGTCACAATCTCCT  
TGCAGTCCAGGACTGGGCATACTCATATGCCTTCTGTGGTTGGCGTCCTTGTATTTACCCAGTTTTTGGTTCTGGT  
TTCTCTTTTACACTTCTGTCTATTGGCTTATACCCCTACCTGTGTCTATTGGCCTTAACAAGGACTTAAAGATGC  
CGAAAGTTCAGTATAAATCGAACTGTAAACCATCCACATTTGCATATCCTGCCCTCTGGAAGTACCAAAGAAA  
AAGAAAAGGAAAAGGTTTCTACTGCTGTATTATCTATAACTGCCAAGGCTAAAAAGAAGGAAAAAGAAAAGGAAA  
AAAAGGAGGAGGAGAAAATGGAAGTGGATGAGGCAGAGAAAAAGGAGGAAAAAGAGAAGAAAAAGAACCTGAGC  
CAAACCTCCAGTTATTGGATAACCCAGCCCGAGTTATGCCTGCCAGCTTAAGGTCCTAACCATGCCGGAGACCT  
GTAGATACCAGCCTTTCAAACCACTCTCTATTGGAGGCATCATATTCTGAAGGATACCAGTGAAGACATTGAGG  
AGCTGGTGGAACCTGTGGCAGCACATGGCCCAAAAATCGAGGAGGAGGAACAAGAGCCAGAACCCCAAGACCAT  
TTGAGTATATTGATGATTAAGGGCCAGAGGATCTCACTTGCTTATCTGAAGAAGATTGTCCAGGCTCATATTGGG  
AATGCTTATGAGGAAATTCATGCCGAGACCTGCTATTCAATGCATGTATCGTTGCCTCTGCACTGACCTGAAGAA  
CCCTGTCTCCAAGTCTTTGGTTGAAGAGAAGATATGACTGTTGAGTGTGCTCTTTACAGAACTTGGTTTTCA  
AATAATATAAGATCTCCAGATGGACAAG

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**FIGURE 1007**

CTGCAAGCCGCCGAGCCGGGCAACCAGTGGAAGGAGCCTGGGAGAGGCCAGGCCTCCCCGGACTGCTAGCCTGC  
TTTTCTGGGGTCCCTGGAGCCGGAGGAAGAACCAGGATGTTGCTGCCTGCAGAAGCTCAGCTCAGGAAGACTTC  
CAGGAACCTGAGGAGGAGCTGCCACTAACAGCCATATTCCCAATGGAGACTGTGATGACCTTGGAAGGGGGTCA  
AAAGCCTGTGATGGAGTCGTACACACTCCTGCTGAGCCCACCGGAGACTCAAGATGAAGGCTGGACCCCTTGCGCT  
GTCCCTGGCTCTAACCTACAGACTGGGGCCTGGCTCCGTCTTACTGGCCCCCAGGTCTCCATGGAGACTGCAGAA  
ACCCCGCCTGCTGGAGGCCTGCCACACTCACAGTTACCAGCTAGACAGTGGGGCTTACTAAGACAAGCAGGACC  
TAAACAGTGTCTCCCTGGGAACCTACTCCCCACCCAGCATTGCTAAGTCTGATCACAGGGAGGTTATTTGT  
CTCTCTGTCTCGGTTTCTCTGAGCCACTGAGACAGATGGCTGTCCGCTTTGAGGCTCTGCAGAGCTGTGGCAGCC  
CATGGTGTGTCTGCAGTGTTCTGGGCACATGCATGGGCACCCATCGTTGAGAGTGCAGCTGGGAAGAAGTCTGAA  
CCAGAAGTCATCAGAGCTGAGGCATGGCCTTGAACATGTCACTCAGTCTCTGGGGCTTCTGTTTTCACAAATGCAT  
GAGGGGGCCACCAGCCAGTGGCTTTAAACCAGGGGCAGGTTGTCCCTCCAGGCAGCATTGGAAATGTGTGTGTG  
TTGAGGGGGTCACAGTGAAGTGTGGGGGCACCCCTGGCATCTAGTGGGCATCCACAATGTGCAGAACAGTCTCTG  
ACAGCAAAGAATTGGTCCATTCAATGCCAATTGTAGTACCTTTGAGACATTCTGGCTGAGCCAATGCCTTCTCCC  
TGTCAGAGTCCCCCAGAGCAGAGAGGGTCAAGGCTTCCCTGGACCTTGGCTCCAGAGCAAGCCAAAATAAAGACT  
ACACTGTTGCCTTGGGGGCTTGTCTGGGGCCAGGGCCAAGACGGTCTGCGTGCTGCAGGGCCAGGACAGAAATAGCC  
ACACATGCCGGTGAGAACAAGAGCCTCTTTCTTTCTCATGTTGACATCGACTTTCTGTGCCAAGTCTTTGGGT  
ATAAGGATGCTAGGGAATTCTATAGGCACCAAACAGAAGGAAAGCTAGGGGCTTGGACTACTGGGTATAGGACT  
TGCTCTAGCTCTCAGGTCTAGCCCAAGCTCAATGCAAACACAGCCCCTCCGGGCTCTCTGTTTCTGTGAGGTTT  
TGGAATCCCTTCCCTCTGTGTCCGTGAGTCTGACAGAATCGATGATGTTCCCTTAGAGCTGGGAAATCCATGTGTT  
TATTCACGGAGGGAAGTCAACATTACCTCCCTTGTCTTCTTTGCCTGCCTTGGAGAAATCCAGAGTCTTCGGAAT  
GGCAAAGGCAGTCTCCTGGATTTCCCTGGAGGGGAGGCACTAGCTGAGGGAAGTAGCTCCCTTCATTTCATGATGCA  
CAGTTTACGCAGCAGACACAACTGCGCCTACTATTTGCTCGGTGCCCTGCAAGGTGCTGCCTAACTTTGATTT  
GTTATTTACAGCTCTCTCCAGGATAGTGCCAAATGGTGCAATGGGAAACCTGTTTTGCTGGGGGGCTCTAGATCAC  
TGGCTCCAGAACTCCCGGCTGCCAGGGTAGCCCCTACCCCCAGCCCCTTGCTCCTGGACAGCAGTGGGTCTCACC  
TTTAGCCTCTGCCCCAGTTCTGGTCTGACCCAACAGAGGGGCTCTATGATATTAAGAAGGGGGCCCTTCCCTGCTC  
TGTGCCTCAACCTATTCTCCATAATAGGGAGTCTAATCCTATTCCCTTCCCTGCCTGATGAGGATGGTGTGAGGAT  
GAGGAGGACGGCATCTCATTGGGGCTTTTTGGCAGTGGGCCTCATTTTAATCCTGCAGGGCTGCCTGCCAGTGG  
ATCTATCCAGCTGCTTCCTGTAGCCAAGAATGAGTTCAATGAATTGTGATTCAGTATTTTATTGATTTTGT  
TAAACAGGGAGACTGGTATTTTTGAAGCTGCTATCATTTTCTATTCTTTATTAATTTCTTTGTAATCATCTTA  
TTAAAGTTTTCTTATTAGTGGG

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**FIGURE 1008**

METVMTLEGGQKPVME SYTLLLSPPETQDEGWTLLALSLALTYRLGPGSVLLAPRSPWRLQKPPPAGGLPHSQLPA  
RQWGLLRQAGPKTVSPLGTYSPPSIC

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**FIGURE 1009**

GGGACGCGAGCGGGATCCAAACTTCCGGTGCCTGCAGAGCTCGGAGCGGCGGAGGCAGAGACCGAGGCTGCACCG  
GCAGAGGCTGCGGGGCGGACGCGCGGGCCGGCGCAGCCATGGTGAAGATTAGCTTCCAGCCCGCCGTGGCTGGCA  
TCAAGGGCGACAAGGCTGACAAGGCGTCGGCGTCGGCCCCCTGCGCCGGCCCTCGGCCACCGAGATCCTGCTGACGC  
CGGCTAGGGAGGAGCAGCCCCACAACATCGATCCAAGAGGGGGGGCTCAGTGGGCGGCGTGTGCTACCTGTCTCGA  
TGGGCATGGTTCGTGCTGCTCATGGGCCCTCGTGTTTCGCCTCTGTCTACATCTACAGATACTTCTTCTTGCAGC  
TGGCCCGAGATAACTTCTTCCGCTGTGGTGTGCTGTATGAGGACTCCCTGTCTCCAGGTCCGACTCAGATGG  
AGCTGGAAGAGGATGTGAAAATCTACCTCGACGAGAATACTACGAGCGCATCAACGTGCCTGTGCCCCAGTTTGGCG  
GCGGTGACCCCTGCAGACATCATCCATGACTTCCAGCGGGGTCTGACTGCGTACCATGATATCTCCCTGGACAAGT  
GCTATGTCATCGAACTCAACACCACCATTGTGCTGCCCCCTCGCAACTTCTGGGAGCTCCTCATGAACGTGAAGA  
GGGGGACCTACCTGCCGAGACGTACATCATCCAGGAGGAGATGGTGGTCACGGAGCATGTAGTGACAAGGAGG  
CCCTGGGGTCCCTCATCTACCACCTGTGCAACGGGAAAGACACCTACCGGCTCCGGCGCCGGGCAACGCGGAGGC  
GGATCAACAAGCGTGGGGCCAAAGAACTGCAATGCCATCCGCCACTTCGAGAACACCTTCGTGGTGGAGACGCTCA  
TCTGCGGGGTGGTGTTGAGGGCCCTCCTCCCCAGAACCCCTGCGGTGTTCTCTTTTCTTCTTCCGGCTGCTCT  
CTGGCCCTCCTCCTTCCCCCTGCTTAGCTTGTACTTTGGACGCGTTTCTATAGAGGTGACATGCTCTCTCCATTCC  
TCTCCAACCTGCCACCTCCCTGTACCAGAGCTGTGATCTCTCGGTGGGGGGCCCATCTCTGCTGACCTGGGTG  
TGGCGGAGGGAGAGGCGATGCTGCAAAGTGTTTTCTGTGTCCCACTGTCTTGAAGCTGGGCCTGCCAAAGCCTGG  
GCCCACAGCTGCACCGGCAGCCCAAGGGGAAGGACCGGTTGGGGGAGCCGGGCATGTGAGGCCCTGGGCAAGGGG  
ATGGGGCTGTGGGGGCGGGGCGGCATGGGCTTCAGAAGTATCTGCACAATTAGAAAAGTCCTCAGAAGCTTTTTT  
TTGGAGGGTACACTTTCTTCACTGTCCCTATTCCCTAGACCTGGGGCTTGAGCTGAGGATGGGACGATGTGCCAG  
GGAGGGACCCACCAGAGCACAAGAGAAGGTGGCTACCTGGGGGTGTTCCAGGGACTCTGTGAGTGCCTTCAGCCC  
ACCAGCAGGAGCTTGAGGTTTGGGGAGTGGGGATGAGTCCGTCAAGCACAACTGTTCTCTGAGTGAACCAAAGA  
AGCAAGGAGCTAGGACCCCCAGTCCTGCCCCCAGGAGCACAAGCAGGGTCCCCTCAGTCAAGGCAGTGGGATGG  
GCGGCTGAGGAACGGGGCAGGCAAGGTCACTGCTCAGTCACGTCCACGGGGGACGAGCCGTGGGTCTGTCTGAGT  
AGGTGGAGCTCATTGCTTTCTCCAAGCTTGGAAGTGTTTTGAAAGATAACACAGAGGGAAGGGAGAGCCACCTG  
GTACTTGTCCACCTGCCTCCTCTGTTCTGAAATTCCATCCCCCTCAGCTTAGGGGAATGCACCTTTTTTCCCTTT  
CCTTCTCACTTTTGCATGTTTTTACTGATCATTCGATATGCTAACCGTTCTCAGCCCTGAGCCTTGAGAGAGGAGG  
GCTGTAACGCCTTCAGTCAGTCTCTGGGGATGAAACTCTTAAATGCTTTGTATATTTTCTCAATTAGATCTCTTT  
TCAGAAGTGTCTATAGAACAATAAAAATCTTTTACTTCTG



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**FIGURE 1010**

MVKISFQPAVAGIKGDKADKASASAPAPASATEILLTPAREEQPPQHRSKRGGSVGGVCYLSMGMVVLLMGLVFA  
SVYIYRYFFLAQLARDNFFRCGVLYEDSLSSQVRTQMELEEDVKIYLDENYERINVPVPQFGGGDPADI IHDFQR  
GLTAYHDISLDKCYVIELNTTIVLPPRNFWELLMNVKRGTYLPQTYIIQEEMVVTEHVSDKEALGSFIYHLCNGK  
DTYRLRRRATRRRINKRGAKNCNAIRHFENTFVVETLICGVV

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**FIGURE 1011**

GATCACCACCATCGAGGCAGTGAAGTGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGC  
TGAGCACCTCCAGCGAGAAGTTGAGGGAGAAAGGCAGGCCCGGGAAGAGAGGTATGAAGGTTGTTGAAAATCGGG  
CCTTAAAAGATGAAGAAAAGATGGAACTCCAGGAAATCTAACTCCAAGAAGCTAAGCACATTGCAGAAGAGGCAG  
ATAGGAAGTATGAAGAGGTGGCTCATAAGTTGGTGATCATTGAAGGAGACTTGGAAGGCACGGAGGAACGAGCTG  
AGCTGGGAGAGTCCCGTTGCCAAGAGATGGATGAGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTG  
CTGCTGAAGAAATGTACTCTCAAAAAGAAGACAAATATGAGGAAGAGATCAAGATTCTTACTGATAAACTCAAGG  
AGGCAGAGACCAGTGCTGAGTTTGCTGAGAGATCGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGGAAGATA  
AACTGAAACGCACCAAAGAGGAGCACCTCTGTACACAAAGGATGCTGGACCAGACTCTGATTGACCTGAATGAGA  
TGTAGAACGCCCCAGTCCCACCCTGCTGCTGCTCCTCCCTCTTCTCAGAGAATCCAGCTGGGCTAGAGGCTGAGC  
ACCTTTGGAAACAACATTTAAGGGAATGTGAGCACAAATGCATAATGTCCTTTAAAAGCATGTTGTGATG

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**FIGURE 1012**

GTTTTGCCTGCTAGCATCTCCCTGTAACCTCTCCCAATCTTGAGGAGTGATCCCTGTCCCAGCCCCCTGGAAAGGGG  
CAGGAACGACAAACTCAAAGTCCAGGATGTTTACCATTGACAAGAGCCATGGAAGAGGCTCTTTTTTCAGCACTTCA  
TGCACCAGAAGCTGGGGATCGCCTATGCCATACACAAGCCATTTCCCTTCTTTGAAGGCCTCCTAGACAACCTCCA  
TCATCACTAAGAGAATGTACATGGAATCTCTGGAAGCCTGTAGAAATTTGATCCCTGTATCCAGAGTGTTGCACA  
ACATTCTCACCCAACTGGAGAGGACTTTTAACCTGTCTCTTCTGGTGACATTGTTTCAGTCAAATTAACCTGCGTG  
AATATCCCAATCTGGTGACGATTTACAGAAGCTTCAAACGTGTTGGTGCTTCCTATGAACGGCAGAGCAGAGACA  
CACCAATCCTACTTGAAGCCCCAACTGGCCTAGCAGAAGGAAGCTCCCTCCATACCCCACTGGCGCTGCCCCAC  
CACAACCCCTCAACCAAGCTGTTACCCCTGTGCGCCAAGAGTCAGTGAGCCTGGAACATCCTCCCAGCAAAGCG  
ATGAGATCCTGAGTGAGTCGCCCAGCCCATCTGACCCTGTCTGCTCTCCCTGCACTCATCCAGGAAGGAAGAA  
GCACTTCAGTGACCAATGACAAGTTAACATCCAAAATGAATGCGGAAGAAGACTCAGAAGAGATGCCAGCCTCC  
TCACTAGCACTGTGCAAGTGGCCAGTGACAACCTGATCCCCCAAATAAGAGATAAAGAAGACCCCTCAAGAGATGC  
CCCACTCTCCCTTGGGCTCTATGCCAGAGATAAGAGATAATTCTCCAGAACCAAATGACCCAGAAGAGCCCCAGG  
AGGTGTCCAGCACACCTTCAGACAAGAAAGGAAAGAAAAGAAAAGATGTATCTGGTCAACTCCAAAAAGGAGAC  
ATAAGAAAAAAGCCTCCCAAGAGGGACAGCCTCATCTAGACACGGAATCCAAAAGAAGCTCAAAAGGGTGGATC  
AGGTTCTCCTCAAAAGAAAGATGACTCAACTTGTAACCTCCACGGTAGAGACAAGGGCCCCAAAAGGCGAGAAGTGAAT  
GTGCCCGAAAGTCGAGATCAGAGGAGATCATTTGATGGCACTTCAGAAATGAATGAAGGAAAGAGGTCCCAGAAGA  
CGCCTAGTACACCACGAAGGGTCACACAAGGGGCAGCCTCACCTGGGCATGGCATCCAAGAGAAGCTCCAAGTGG  
TGGATAAGGTGACTCAAAGGAAAGACGACTCAACCTGGAACCTCAGAGGTGATGATGAGGGTCCAAAAGGCAAGAA  
CTAAATGTGCCCGAAAGTCCAGATCGAAAGAAAAAGAAAAGGAGAAAGATATCTGTTCAAGCTCAAAAAGGAGAT  
TTCAGAAAAATATTACCGAAGAGGAAAAACCCAAAAGTGACACTGTGGATTTTCACTGTTCTAAGCTCCCCGTGA  
CCTGTGGTGAGGCGAAAGGGATTTTATATAAGAAAGAAAATGAAACACGGATCCTCAGTGAAGTGCAATTCGGAATG  
AGGATGGAACCTTGGTTAACACCAAATGAATTTGAAGTCGAAGGAAAAGGAAGGAACGAAAGAACTGGAAACGGA  
ATATACGTTGTGAAGGAATGACCCTAGGAGAGCTGCTGAAGCGGAAAAACTCGGATGAATGCGAGGTGTGCTGTC  
AAGGGGGACAACCTTCTCTGCTGCGGTACTTGTCCACGAGTCTTCCATGAGGACTGTACATCCCCCTGTGGAAG  
CCAAGAGGATGCTGTGGAGTTGCACCTTCTGCAGGATGAAGAGGTCTTCAGGAAGCCAACAGTGCCATCATGTAT  
CTAAGACCCTGGAGAGGCAGATGCAGCCTCAGGACCAGCTGATTGAGATTACGGTGAGCCCTTTCAGGAAGCAA  
TGTGGTTGGACCTGGTTAAGGAAAGGCTGATTACGGAATGTACACGGTGGCATGGTTTTGTGCGAGACATGCGCC  
TGATGTTTTGCAACCATAAAACATTTTACAAGGCTTCTGACTTTGGCCAGGTAGGACTTGACTTAGAGGCAGAAT  
TTGAAAAGATCTCAAAGACGTGCTCGGTTTTTCATGAAGCCAATGACGGCGGTTTTCTGGACTCTTCCTTGACCCCT  
GTTCTGTAAAGACTGAAGCATCCCCACCTCAGGATTGAGCTGATGGGACCCTGGCTTGGACTGTTGATTGCCAGT  
GAGTCTGGGATGTAATTGGCTGCCCTCAGGACCCAAACCCAGACACTTCATAGGATTATCACACCCTCCATCTTT  
ATTCTTTCTTTTTACCTTTAAAAGTCTATATCTA

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**FIGURE 1013**

MFTMTRAMEEALFQHFMHQKLGIAIAIHKPFPFFEGLLDNSIITKRMYESLEACRNLI PVSRVVHNILTQLERT  
FNLSLLVTLFSQINLREYPNLVTIYRSFKRVGASYERQSRDTPILLEAPTGLAEGSSLHTPLALPPPQPPQPSCS  
PCAPRVSEPGTSSQQSDEILSESPSPSDPVLPLPALIQEGRSTSVTNDKLTSKMNAEEDSEEMPSLLTSTVQVAS  
DNLIPQIRDKEDPQEMPHSPLGSMPEIRDNSPEPNDPEEPQEVSSTPSDKKGKKRKRKIWSTPKRRHKKKSLPRG  
TASSRHGIQKKLKRVDQVPQKKDDSTCNSTVETRAQKARTECARCSRSEEIIDGTSEMNEGKRSQKTPSTPRRVT  
QGAASPGHGIQEKLVVDKVTQRKDDSTWNSEVMRVQKARTKCARKSRSEKKEKKEDICSSSKRRFQKNIHRRG  
KPKSDTVDFHCSKLPVTCGEAKGILYKKKMKGSSVKCIRNEDGTWLTPTNEFEVEGKGRNAKNWKRNI RCEGMTL  
GELLKRKNSDECEVCCQGGQLCCGTCPRVFHEDCHIPPEAKRMLWSCTFCRMKRSSGSQQCHHVSKTLERQMQ  
PQDQLIRDYGEPPQEAMWLDLVKERLITEMYTVAWFVRDMRLMFRNHKTFYKASDFGQVGLDLEAEFEKDLKDVL  
GFHEANDGGFWTLP

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**FIGURE 1014**

GTTTTGCCTGCTAGCATCTCCCTGTAACCTCTCCCAATCTTGAGGAGTGATCCCTGTCCCAGCCCCCTGGAAAGGGG  
CAGGAACGACAAACTCAAAGTCCAGGATGTTTACCATGACAAGAGCCATGGAAGAGGCTCTTTTTTCAGCACTTCA  
TGCACCAGAAGCTGGGGATCGCCTATGCCATACACAAGCCATTTCCCTTCTTTGAAGGCCTCCTAGACAACCTCCA  
TCATCACTAAGAGAATGTACATGGAATCTCTGGAAGCCTGTAGAAATTTGATCCCTGTATCCAGAGTGGTGCACA  
ACATTCTCACCCAACTGGAGAGGACTTTTAACTGTCTCTTCTGGTGACATTGTTTCAGTCAAATTAACCTGCGTG  
AATATCCCAATCTGGTGACGATTTACAGAAGCTTCAAACGTGTTGGTGCTTCCCTATGAACGGCAGAGCAGAGACA  
CACCAATCCTACTTGAAAGCCCCAACTGGCCTAGCAGAAGGAAGCTCCCTCCATACCCCACTGGCGCTGCCCCAC  
CACAACCCCTCAACCAAGCTGTTACCCCTGTGCGCCAAGAGTCAGTGAGCCTGGAACATCCTCCCAGCAAAGCG  
ATGAGATCCTGAGTGAGTCGCCAGCCCATCTGACCCTGTCTGCTCTCCCTGCACTCATCCAGGAAGGAAGAA  
GCACTTCAGTGACCAATGACAAGTTAACATCCAAAATGAATGCGGAAGAAGACTCAGAAGAGATGCCAGCCTCC  
TCACTAGCACTGTGCAAGTGGCCAGTGACAACCTGATCCCCAAATAAGAGATAAAGAAGACCCTCAAGAGATGC  
CCCCTCTCCCTTGGGCTCTATGCCAGAGATAAGAGATAATTCTCCAGAACCAAATGACCCAGAAGAGCCCCAGG  
AGGTGTCCAGCACACCTTCAGACAAGAAAGGAAAGAAAGAAAGATGTATCTGGTCAACTCCAAAAGGAGAC  
ATAAGAAAAAAGCCTCCCAAGAGGGACAGCCTCATCTAGACACGGAATCCAAAAGAAGCTCAAAAGGGTGGATC  
AGGTTCCCTCAAAAGAAAGATGACTCAACTTGTAACCTCACGGTAGAGACAAGGGCCCCAAAAGGCGAGAAGTGAAT  
GTGCCCCGAAAGTCGAGATCAGAGGAGATCATTGATGGCACTTCAGAAATGAATGAAGGAAAGAGGTCCAGAGA  
CGCCTAGTACACCACGAAGGGTCACACAAGGGGCAGCCTCACCTGGGCATGGCATCCAAGAGAAGCTCCAAGTGG  
TGGATAAGGTGACTCAAAGGAAAGACGACTCAACCTGGAACCTCAGAGGTCATGATGAGGGTCCAAAAGGCAAGAA  
CTAAATGTGCCCCGAAAGTCCAGATCGAAAGAAAGAAAGGAGAAAGATATCTGTTCAAGCTCAAAAAGGAGAT  
TTCAGAAAAATATTCACCGAAGAGGAAAACCCAAAAGTGACACTGTGGATTTTCACTGTTCTAAGCTCCCCGTGA  
CCTGTGGTGAGGCGAAAGGGATTTTATATAAGAAGAAATGAAACACGGATCCTCAGTGAAAGTGCATTTCGGAATG  
AGGATGGAACCTTGGTTAACACCAAATGAATTTGAAGTCGAAGGAAAGGAAGGAACGCAAGAACTGGAACGGA  
ATATACGTTGTGAAGGAATGACCCTAGGAGAGCTGCTGAAGAGTGGACTTTTGCTCTGTCTCCCAAGAATAAATC  
TCAAGAGAGAGTTAAATAGCAAGTGAATTTCTACTACCCTCTCAGTCACCATGTTGCAGACTTTCCCTGTCTGGA  
GGCTCACCTTAGAGCTTCTGAGTTTCCAAGCTCTGAGTCACCTCCACATTTGGGCATGGCATCTTCAAAACAATT  
AATTTGCATAGTTAATTTGGGATGGGGAAGCAAATGACTCTAAAATAAAAATTAAATGAAAAAGCTCAAAAAA  
AAAAAAAAAAAA

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**FIGURE 1015**

MFTMTRAMEEALFQHFMHQKLGIAYAIHKPFPFFEGLLDNSIITKRMYESLEACRNLI PVSRVVHNILTQLERT  
FNLSLLVTLFSQINLREYPNLVTIYRSFKRVGASYERQSRDTPILLEAPTGLAEGSSLHTPLALPPPQPPQPS  
PCAPRVSEPGTSSQQSDEILSESPSPSDPVLPLPALIQEGRSTSVTNDKLTSKMNAEEDSEEMP SLLTSTVQVAS  
DNLIPQIRDKEDPQEMPHSPLGSMPEIRDNSPEPNDPEEPQEVSSTPSDKKGKKRKRKCIWSTPKRRHKKKSLPRG  
TASSRHGIQKKLKRVDQVPQKKDDSTCNSTVETRAQKARTECARKSRSEEIIDGTSEMNEGKRSQKTPSTPRRVT  
QGAASPGHGIQEKLVVDKVTQRKDDSTWNSEVMRVQKARTKCARKSRSEKKKKEKD ICSSSKRRFQKNIHRRG  
KPKSDTVDFHCSKLPVTCGEAKGILYKKKMKHGSSVKCIRNEDGTWLT PNEFEVEGKGRNAKNWKRNI RCEGMTL  
GELLKSGLLLCPPRINLKRELNSK

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**FIGURE 1016**

GT TTTTG CCTGCTAGCATCTCCCTG TAACTCTCCCAATCTTGAGGAGTGATCCCTGTCCCAGCCCCCTGGAAAGGGG  
CAGGAACGACAAACTCAAAGTCCAGGATGTTTCACCATGACAAGAGCCATGGAAGAGGCTCTTTTTTCAGCACTTCA  
TGCACCAGAAGCTGGGGATCGCCTATGCCATACACAAGCCATTTCCCTTCTTTGAAGGCCTCCTAGACA AACTCCA  
TCATCACTAAGAGAATGTACATGGAATCTCTGGAAGCCTGTAGAAATTTGATCCCTGTATCCAGAGTGGTGCACA  
ACATTCTCACCCAACTGGAGAGGACTTTTAACTGTCTCTTCTGGTGACATTGTTTCAGTCAAATTAACCTGCGTG  
AATATCCCAATCTGGTGACGATTTACAGAAGCTTCAAACGTGTTGGTGCTTCCTATGAACGGCAGAGCAGAGACA  
CACCAATCCTACTTGAAGCCCCAACTGGCCTAGCAGAAGGAAGCTCCCTCCATACCCCACTGGCGCTGCCCCAC  
CACAACCCCTCAACCAAGCTGTTACCCCTGTGCGCCAAGAGTCAGTGAGCCTGGAACATCCTCCAGCAAAGCG  
ATGAGATCCTGAGTGAGTCGCCCAGCCCATCTGACCCTGTCTGCTCTCCCTGCACTCATCCAGGAAGGAAGAA  
GCACTTCAGTGACCAATGACAAGTTAACATCCAAAATGAATGCGGAAGAAGACTCAGAAGAGATGCCAGCCTCC  
TCACTAGCACTGTGCAAGTGGCCAGTGACAACCTGATCCCCCAAATAAGAGATAAAGAAGACCCTCAAGAGATGC  
CCCCTCTCCCTTGGGCTCTATGCCAGAGATAAGAGATAATTCTCCAGAACCAAATGACCCAGAAGAGCCCCAGG  
AGGTGTCCAGCACACCTTCAGACAAGAAAGGAAAGAAAGAAAGATGTATCTGGTCAACTCCAAAAAGGAGAC  
ATAAGAAAAAAGCCTCCCAAGAGGGACAGCCTCATCTAGACACGGAATCCAAAAGAAGCTCAAAAGGGTGGATC  
AGGTTCTCAAAAGAAAGATGACTCAACTTGTAACCTCACGGTAGAGACAAGGGCCCCAAAAGGCGAGAAGTGAAT  
GTGCCCGAAAGTCGAGATCAGAGGAGATCATTGATGGCACTTCAGAAATGAATGAAGGAAAGAGGTCCCAGAAGA  
CGCCTAGTACACCACGAAGGGTCACACAAGGGGCAGCCTCACCTGGGCATGGCATCCAAGAGAAGCTCCAAGTGG  
TGGATAAGGTGACTCAAAGGAAAGACGACTCAACCTGGAACCTCAGAGGTGATGATGAGGGTCCAAAAGGCAAGAA  
CTAAATGTGCCCCGAAAGTCCAGATCGAAAGAAAGAAAGGAGAAAGATATCTGTTCAAGCTCAAAAAGGAGAT  
TTCAGAAAAATATTCACCGAAGAGGAAAAACCCAAAAGTGACACTGTGGATTTTCACTGTTCTAAGCTCCCCGTGA  
CCTGTGGTGAGGCGAAAGGGATTTTATATAAGAAGAAATGAAACACGGATCCTCAGTGAAGTGCATTTCGGAATG  
AGGATGGAACCTTGGTTAACACCAAATGAATTTGAAGTCGAAGGAAAGGAAGGAACGCAAGAAGTGGAAACGGA  
ATATACGTTGTGAAGGAATGACCCTAGGAGAGCTGCTGAAGCGGAAAAACTCGGATGAATGCGAGGTGTGCTGTC  
AAGGGGGACAACCTTCTCTGCTGCGGTACTTGTCCACGAGTCTTCATGAGGACTGTCACATCCCCCTGTGGAAG  
CCAAGAGGATGCTGTGGAGTTGCACCTTCTGCAGGATGAAGAGGTCTTCAGGAAGCCAACAGTGCCATCATGTAT  
CTAAGACCCTGGAGAGGCAGATGCAGCCTCAGGACCAGCTGAAATGTGAGTTCTCTCTCTTGAAGGCCTACTGTC  
ATCCACAAAGCTCCTTTTTTACGGGCATCCCATTTAATATTCGAGATTACGGTGAGCCCTTTCAGGAAGCAATGT  
GGTTGGACCTGGTTAAGGAAAGGCTGATTACGGAAATGTACACGGTGGCATGGTTTGTGCGAGACATGCGCCTGA  
TGTTTCGCAACCATAAAACATTTTACAAGGCTTCTGACTTTGGCCAGGTAGGACTTGACTTAGAGGCAGAATTTG  
AAAAAGATCTCAAAGACGTGCTCGGTTTTTCATGAAGCCAATGACGGCGGTTTCTGGACTCTTCCTTGAACCTGTT  
CTGTAAAGACTGAAGCATCCCCACCTCAGGATTCAGCTGATGGGACCCTGGCTTGGACTGTTGATTGCCAGTGAG  
TCTGGGATGTAATTGGCTGCCCTCAGGACCCAAACCCAGACACTTCATAGGATTATCACACCTCCATCTTTATT  
CTTTCTTTTTACCTTTAAAGTCTATATCTA

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**FIGURE 1017**

MFTMTRAMEEALFQHFMHQKLGIAIAIHKPFPFFEGLLDNSIITKRMYESLEACRNLI PVSRVVHNILTQLERT  
FNLSLLVTLFSQLNREYPNLVTIYRSFKRVGASYERQSRDTPILLEAPTGLAEGSSLHTPLALPPPQPPQPPSCS  
PCAPRVSEPGTSSQQSDEILSESPSPSDPVLPLPALIQEGRSTSVTNDKLTSKMNAEEDSEEMPSLLTSTVQVAS  
DNLIPQIRDKEDPQEMPHSPLGSMPEIRDNSPEPNDPEEPQEVSSTPSDKKGKKRKRKCIWSTPKRRHKKKSLPRG  
TASSRHGIQKKLKRVDQVPQKKDDSTCNSTVETRAQKARTECARKSRSEEIIDGTSEMNEGKRSQKTPSTPRRVT  
QGAASPGHGIQEKLVVDKVTQRKDDSTWNSEVMRVQKARTKCARKSRSEKKEKKEKDICSSEKRRFQKNIHRRG  
KPKSDTVDFHCSKLPVTCGEAKGILYKKKMKGSSVKCIRNEDGTWLTNPFEFEVEGKGRNAKNWKRNI RCEGMTL  
GELLKRKNSDECEVCCQGGQLCCGTCPRVFHEDCHIPPEAKRMLWSCTFCRMKRSSGSQQCHHVSKTLERQMQ  
PQDQLKCEFLLLKAYCHPQSSFFTGIPFNIRDYGEPPQEAMWLDLVKERLITEMYTVAWFVRDMRLMFRNHKTFY  
KASDFGQVGLDLEAEFEKDLKDVLGFHEANDGGFWTLF



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**FIGURE 1018**

ATGCTGGGTACGCTGCGCGCCATGGAGGGCGAGGACGTGGAAGACGACCAGCTGCTGCAGAAGCTCAGGGCCAGT  
CGCCGCCGCTTCCAGAGGCGCATGCAGCGGCTGATAGAGAAGTACAACCAGCCCTTCGAGGACACCCCGGTGGTG  
CAAATGGCCACGCTGACCTACGAGACGCCACAGGGATTGAGAATTTGGGGTGGAAGACTAATAAAGGAAAGAAAC  
AAAGGAGAGATCCAGGACTCCTCCATGAAGCCCGCGGACAGGACAGATGGCTCCGTGCAAGCTGCAGCCTGGGGT  
CCTGAGCTTCCCTCGCACCGCACAGTCTGGGAGCCGATTCAAAAAGCGGTGAGGTGATGCCACGTCAGACCAG  
GAAGAGTCAGTTGCTTGGGCCTTAGCACCTGCAGTGCCTCAAAGCCCTTTGAAAAATGAATTAAGAAGGAAATAC  
TTGACCCAAGTGGATATACTGCTACAAGGTGCAGAGTATTTTGAGTGTGCAGGTAACAGAGCTGGAAGGGATGTA  
CGTGTGACTCCGCTGCCTTCACTGGCCTCACCTGCCGTGCCTGCCCCGGATACTGCAGTCGTATCTCCGGAAAG  
AGTCCTGGTGACCCAGCGAAACCAGCTTCATCTCCAGAGAATGGGATCCTTTGCATCCTTCTCCACAGACATG  
GCCTTAGTACCTAGAAAATGACAGCCTCTCCCTACAAGAGACCAGTAGCAGCAGCTTCTTAAGCAGCCAGCCCTTT  
GAAGATGATGACATTTGCAATGTGACCATCAGTGACCTGTACGCAGGGATGCTGCACTCCATGAGCCGGCTGTTG  
AGCACAAAGCCATCAAGCATCATCTCCACCAAACGTTTCATCATGCAAACTGGAAGTGCAGGAGGAGGCACAGA  
TATAAGAGCAGGATGAACAAAACATATTGCAAAGGAGCCAGACGTTCTCAGAGGAGCTCCAAGGAGAACTTCATA  
CCCTGCTCTGAGCCTGTGAAAGGGACAGGGGCATTAAAGAGATTGCAAGAACGTATTAGATGTTTCTTGCCGTAAG  
ACAGGTTTTAAATTTGGAAGGAGCTTTTCTTGAAGTCAACAGACCCCAATCCATAAGTTAGATCCAAGTTGGAAG  
GAGCGCAAAGTGACACCCCTCGAAGTATTCTTCCTTGATTTACTTCGACTCCAGTGCAACATATAATCTTGATGAG  
GAAAATAGATTTAGGACATTAAATGGTTAATTTCTCCTGTAAAAATAGTTTCCAGACCAACAATACGACAGGGC  
CATGGAGAGAACCGTCAGAGGGAGATTGAAATCCGATTTGATCAGCTTCATCGGGAATATTGCCTGAGTCCCAGG  
AACCAGCCTCGCCGGATGTGCTCCCGGACTCCTGGGCCATGAACATGTACAGAGGGGGTCTGCGAGTCCCTGGT  
GGCCTTCAGGGCTTAGAAACCCGAGGCTGAGTTTACCTTCAGCAAAGCAAAGCAAAAAGTTTAAGTGAGGCT  
TTTGAACCTTAGGCAAAAGATCTCTGGAAGCAGGTAGGTGCCTGCCAAGAGCGATTTCATCTTCATCACTTCCA  
AAGACCAACCCACACACAGCGCAACTCGCCCGCAGCAGACATCTGACCTTCACGTTGAGGAAATAGTTCTGGA  
ATATTTAGAAAGTCAGTGTACCCAGCAAACTCTTTAGTCCCAGATAAAGAAGTGCCAGGCCACGGAAGGAAT  
CGTTACGATGAAATTAAGAAGAATTTGACAAGCTTCATCAAAAGTATTGCCTCAAATCTCCTGGGCAGATGACA  
GTGCCTTTATGTATTGGAGTGTCTACAGATAAAGCAAGTATGGAAGTTGATATCAAACAGAAGGCTTCTTAGGA  
AAATTAAATCCAGACCCCTCACTTCCAGGGTTTCCAGAAGTTGCCATCATCACCCCTGGGGTGAGAAAAAGTCTA  
CTGGGCTCAACTGCAATTGAGGCTCCTTCATCTACATGTGTGCTCGTGCCATCACGAGGGATGGCACGAGGGAC  
CATCAGTTCCCTGCAAAAAGACCCAGGCTATCAGAACCCAGGGCTCCGGACGCCAGGGCAATTCCTGGGTGCC  
TCAGATGGGGTGACAAACACCGTCAGACCGGGAGACCAGGGCAGCTCTTCAGACCCCAACTCAGAAGAGAGAGGA  
GAGAACACGTCTTACAGGATGGAAGAGAAAAGTGATTTTCATGCTAGAAAAATTGGAACTAAAAGTGTGTAGCTA  
GGTTATTTTCGGAGTGTTATTTATCTTCCCACTTGCTCTCTGTTTGTATTTTTGTTTTGTTTTGATTCTTGAGAC  
TGTGAGGACTTGGTTGACTTCTCTGCCCTTAAAGTAAATATTAGTGAAATTGGTTCCATCAGAGATAACCTCGAG  
TTCTTGGTGTAGAAATTATGTGAATAAAGTTGCTCAATTAGAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1019**

MLHSMSRLLSTKPSSIISTKTFIMQNWNCRRRHRYKSRMNKTYCKGARRSQRSSKENFIPCSEPVKGTGALRDCK  
NVLDVSCRKTGLKLEKAFLEVNRPQIHKLDPSWKERKVTSPSKYSSLIYFDSSATYNLDEENRFRTLKWLISPVKI  
VSRPTIRQGHGENRQREIEIRFDQLHREYCLSPRNQPRRMCLPDSWAMNMYRGGPASPGGLQGLETTRRLSLPSSK  
AKAKSLSEAFENLGKRSLEAGRCLPKSDSSSSLPKTNPTHSATRPQQTSDLHVQGNSSGIFRKSVPSPSKTLSVPD  
KEVPGHGRNRYDEIKEEFDKLHQKYCLKSPGQMTVPLCIGVSTDKASMEVRYQTEGFLGKLNPDPHFQGFQKLPS  
SPLGCRKSLLGSTAIEAPSSSTCVARAITRDGTRDHQFPKRPRLSEPQSGRQGNLGLASDGVNDTVRPGDQGSS  
SQPNSEERGENTSRYMEEKSDFMLEKLETKSV

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**FIGURE 1020**

AAGACCGTCCCGGATGGCCTCGGGGACTGCCAGTGTGTGGAGGTGAGCTCCGGGATTGCCGGCATTCCCGCTTCT  
GCTGGTTGCTTCATGCTGCAGGCTGCGGCCGTCAGCCCTCGCTCGCATTGGTGGCGCTGAGGTGCCGGGGCAGCA  
AGTGACATGTCGTCGGGCCTCCGCGCCGCTGACTTCCCCCGCTGGAAGCGCCACATCTCGGAGCAACTGAGGCGC  
CGGGACCGGCTGCAGAGACAGGCGTTCGAGGAGATCATCCTGCAGTATAACAAATTGCTGGAAGAGTCAGATCTT  
CATTCAGTGTGGGCCAGAACTACAGGCTGAAAAGCATGACGTACCAAACAGGCACGAGATAAGTCCCGGACAT  
GATGGCACATGGAATGACAATCAGCTACAAGAAATGGCCCAACTGAGGATTAAGCACCAAGAGGAAGTACTGAA  
TTACACAAGAAACGTGGGGAGTTAGCTCAACTGGTGATTGACCTGAATAACCAATGCAGCGGAAGGACAGGGAG  
ATGCAGAAAGAGCTTGCAAGCAGCAAAAGGAACCTCTACCAGTTCGAACAGGATGATGACATTGAGGTCATTGTG  
GATGAAACTTCTGATCACACAGAAGAGACCTCTCCTGTGCGAGCCATCAGCAGAGCAGCCACTAAGCGACTCTCG  
CAGCCTGCTGGAGGCCCTTCTGGATTCTGTCACTAATATCTTTGGGAGACGCTCTGTCTCTTCCCTTCCCAGTCCCC  
CAGGACAATGTGGATACTCATCCTGGTTCTGGTAAAGAAGTGAGGGTACCAGCTACTGCCTTGTGTGTCTTCGAT  
GCACATGATGGGGAAGTCAACGCTGTGCAGTTCAGTCCAGGTTCCCGGTTACTGGCCACTGGAGGCATGGACCGC  
AGGGTTAAGCTTTGGGAAGTATTTGGAGAAAAATGTGAGTTCAAGGGTTCCCTATCTGGCAGTAATGCAGGAATT  
ACAAGCATTGAATTTGATAGTGCTGGATCTTACCTCTTAGCAGCTTCAAATGATTTTGCAAGCCGAATCTGGACT  
GTGGATGATTATCGATTACGGGTAAGACCCAGTTAAGAAAGTTAGTGCAATCTCCAACTTCATGTGGTGTTATC  
AAGGCACAACTGGCAGGTGCTTAATTAGGGGACTTTGTTTTCCCAAAAATCATGCTTGATTACCCCTGCCCTTC  
CTTTCCTCCTTGGGGAAATCTGTGTTTCCACTTTATACTCTTTGTCCAAACTCAGTTTCAAATATTTGC~~AA~~TG  
GGACCTCACATTTCATGAAAACCTTGGAATACTCTTCATAAGGACTAAATACTTTGGTAGATAGCAATTTTGG  
CTTAATGGCACAGAACTTAGCAACAGCATGTGAATTGTGATTCCGTGTGGGCTCTAAAACCTAATTACCTAAAGTG  
GGATATAGAAGTACAAATGGATGTATCATAGGGATAAGACAATTCTGAAACAAAACCTCCAAGCTGAGAAAGAGG  
GGACAGGTGTCAGAGCAGGGAGAAATGATTGGATGTTGAGGAAAGCTGCATTGTAACCAAACTTGCCAAGAATT  
CTCTTGGCATCTGACAGAGAGACCAAACTTGGTTGTATCATTTTTGATTGGGGCAGGGGGCGGAGGGCGAAGCA  
TGTAACCTAATTTGCAGACATTTTTTTTTCCCCATAAGCCTGAAGGAATCATCACATAAGCTTATTAAATACAAGC  
TATTGAAAGATATAATGGAGGATGAATTTGGCATTAGTAGGCATTTTACT

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**FIGURE 1021**

MSSGLRAADFPRWKRHISEQLRRRDRLQRQAFEEIILQYNKLLKSDLHSVLAQKLQAEKHDVPNRHEISPGHDG  
TWNDNQLQEMAQLRIKHQEELTELHKKRGELAQLVIDLNNQMQRKDREMQLAEAAKEPLPVEQDDDI EVIVDE  
TSDHTEETSPVRAISRATKRLSQPAGGLLDVNTNIFGRRSVSSFPVPQDNVDTHPGSGKEVRVPATALCVFDAH  
DGEVNAVQFSPGSRLLATGGMDRRVKLWEVFGEKCEFKGSLSGSNAGITSIEFDSAGSYLLAASNDFASRIWTV  
DYRLRVRPS

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**FIGURE 1022A**

AAGAGAGAAGGCTTCTGCCAGCTCCTGCAGCAGATGAAGAACAAGCACTCAGAGCAGCCGGAGCCGACATGATC  
ACCATCTTCATCGGCACCTGGAACATGGGTAACGCCCCCCTCCCAAGAAGATCACGTCCTGGTTTCTCTCCAAG  
GGGCAGGGAAGACGCGGGACGACTCTGCGGACTACATCCCCATGACATTTACGTGATCGGCACCCAAGAGGAC  
CCCCTGAGTGAGAAGGAGTGGCTGGAGATCCTCAAACACTCCCTGCAAGAAATCACCAGTGTGACTTTTAAACA  
GTCGCCATCCACACGCTCTGGAACATCCGCATCGTGGTGCTGGCCAAGCCTGAGCACGAGAACCGGATCAGCCAC  
ATCTGTACTGACAACGTGAAGACAGGCATTGCAAACACACTGGGGAACAAGGGAGCCGTGGGGGTGTCTGTTTCATG  
TTCAATGGAACCTCCTTAGGGTTTCGTCAACAGCCACTTGACTTCAGGAAGTGAAAAGAACTCAGGCGAAACCAA  
AACTATATGAACATTCTCCGGTTCTTGGCCCTGGGCGACAAGAAGCTGAGTCCCTTTAATCACTACCCGCTTC  
ACGCACCTCTTCTGGTTTGGGGATCTTAACCTACCGTGTGGATCTGCCTACCTGGGAGGCAGAAACCATCATCCAG  
AAAATCAAGCAGCAGCAGTACGCAGACCTCCTGTCCACGACCAGCTGCTCACAGAGAGGAGGGAGCAGAAAGGTC  
TTCTTACACTTCGAGGAGGAAGAAATCACGTTTGCCCCAACCTACCGTTTGTAGAGACTGACTCGGGACAAATAC  
GCCTACACCAAGCAGAAAGCGACAGGGATGAAGTACAACCTTGCCCTCCTGGTGTGACCGAGTCTCTGGAAGTCT  
TATCCCTGGTGCACGTGGTGTGTCTAGTCTTATGGCAGTACCAGCGACATCATGACGAGTGACCACAGCCCTGTC  
TTTGCCACATTTGAGGCAGGAGTCACTTCCAGTTTGTCTCCAAGAACGGTCCCGGGACTGTTGACAGCCAAGGA  
CAGATTGAGTTTCTCAGGTGCTATGCCACATTGAAGACCAAGTCCCAGACCAAATTCTACCTGGAGTTCCACTCG  
AGCTGCTTGAGAGTTTTGTCAAGAGTCAGGAAGGAGAAAATGAAGAAGGAAGTGAGGGGGAGCTGGTGGTGAAG  
TTTGGTGAGACTCTTCCAAAGCTGAAGCCCATTATCTCTGACCTGAGTACCTGCTAGACCAGCACATCCTCATC  
AGCATCAAGTCTCTGACAGCGACGAATCCTATGGCGAGGGCTGCATTGCCCTTCGGTTAGAGGCCACAGAAACG  
CAGCTGCCCATCTACACGCCTCTACCCACCATGGGGAGTTGACAGGCCACTTCCAGGGGGAGATCAAGCTGCAG  
ACCTCTCAGGGCAAGACGAGGGAGAAGCTCTATGACTTTGTGAAGACGGAGCGTGATGAATCCAGTGGGCCAAAG  
ACCCTGAAGAGCCTCACCAGCCACGACCCCATGAAGCAGTGGGAAGTCACTAGCAGGGCCCCCTCCGTGCAGTGGC  
TCCAGCATCACTGAAATCATCAACCCCAACTACATGGGAGTGGGGCCCTTTGGGCCACCAATGCCCTGCACGTG  
AAGCAGACCTTGTCCCTGACCAGCAGCCACAGCCTGGAGCTACGACCAGCCGCCCAAGGACTCCCCGCTGGGG  
CCCTGCAGGGGAGAAAGTCTCCCTCCAGGACACAGGAGTCAAGGCCCACTGACCTGGGGAAGAACGCAGGGGACACGCTG  
CCTCAGGAGGACCTGCCGCTGACGAAGCCCAGATGTTTGAGAACCCCTGTATGGGTCCCTGAGTTCCTTCCCT  
AAGCCTGCTCCCAGGAAGGACCAGGAATCCCCAAAATGCCGCGGAAGGAACCCCGCCCTGCCGGAACCCGGC  
ATCTTGTGCGCCAGCATCGTGCTACCAAAGCCCAGGAGGCTGATCGCGCGAGGGGGCCCGCAAGCAGGTGCCC  
GCGCCCCGGCTGCGTCTCTTACGTGCTCATCCTCTGCCGAGGGCAGGGCGGCGGGGACAAGAGCCAAGGG  
AAGCCCAAGACCCCGGTGAGTCCCAGGCCCCGGTGCCGGAAGAGGCCCATCAAGCCTTCCAGATCGGAAATC  
AACCAGCAGACCCCGCCACCCGACGCGCGGCGCCGCTGCCAGTCAAGAGCCCGCGGTGCTGCACCTCCAG  
CACTCCAAGGGCCGCGACTACCGCGACAACACCGAGCTCCCGCATCACGGCAAGCACCGGCCGAGGAGGGGCCA  
CCAGGGCCTCTAGGCAGGACTGCCATGCAGTGAAGCCCTCAGTGAGCTGCCACTGAGTCGGGAGCCAGAGGAAC  
GGCGTGAAGCCACTGGACCCTCTCCCGGACCTCCTGCTGGCTCCTCTGCCAGCTTCCTATGCAAGGCTTTGT  
GTTTTAGGAAAGGGCCTAGCTTCTGTGTGGCCACAGAGTTCACTGCCTGTGAGACTTAGCACCAAGTGCTGAG  
GCTGGAAGAAAAACGCACACCAGACGGGCAACAAACAGTCTGGGTCCCCAGCTCGCTCTTGGTACTTGGGACCCC  
AGTGCCTCGTTGAGGGCGCCATTCTGAAGAAAGGAAGTGCAGCGCCGATTTGAGGGTGGAGATATAGATAATAAT  
AATATTAATAATAATAATGGCCACATGGATCGAACACTCATGATGTGCCAAGTGCTGTGCTAAGTGCTTTACGAA  
CATTGCTCATATCAGGATGACCTCGAGAGCTGAGGCTCTAGCCACCTAAAACCACGTGCCCAAACCCACAGTTT  
AAAACGGTGTGTGTTCCGAGGGGTGAAAGCATTAAAGAAGCCCAGTGCCCTCCTGGAGTGAGACAAGGGCTCGGCC  
TTAAGGAGCTGAAGAGTCTGGGTAGCTTGTTTAGGGTACAAGAAGCCTGTTCTGTCCAGCTTCAGTGACACAAGC  
TGCTTTAGCTAAAGTCCCGCGGGTTCCGGCATGGCTAGGCTGAGAGCAGGGATCTACCTGGCTTCTCAGTTCCTT  
GGTTGGAAGGAGCAGGAAATCAGCTCCTATTCTCCAGTGGAGAGATCTGGCTCAGCTTGGGCTAGAGATGCCAA  
GGCCTGTGCCAGGTTCCTGTGCCCTCCTCGAGGTGGGCAGCCATCACCAGCCACAGTTAAGCCAAGCCCCCAA  
CATGTATTCCATCGTGCTGGTAGAAGAGTCTTTGCTGTTGCTCCCGAAAGCCGTGCTCTCAGCCTGGCTGCCAG  
GGAGGGTGGGCCTCTTGGTTCCAGGCTCTTGAAATAGTGCAGCCTTTTCTTCTATCTGTGGCTTTCAGCTCT  
GCTTCTTGGTTATTAGGAGAATAGATGGGTGATGTCTTCTTATGTTGCTTTTCAACATAGCAGAATTAATG  
TAGGGAGCTAAATCCAGTGGTGTGTGTGAATGCAGAAGGAATGCACCCACATCCCATGATGGAAGTCTGCGT

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**FIGURE 1022B**

AACCAATAAAATTGTGCCTTTCTCACTCA

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**FIGURE 1023**

MKNKHSEQPEPDMITIFIGTWNMGNAPPPKKITSWFLSKGQKTRDDSDYIPHDIIYVIGTQEDPLSEKEWLEIL  
KHSLQEITSVTFTKTVAIHTLWNIRIVVLAKPEHENRISHICTDNVKTGIANTLGNGAVGVSFMFNGTSLGFVNS  
HLTSGSEKKLRRNQNYMNILRFLALGDKKLSPFNITHRFTHLFWFGDLNRYVDLPTWEAETIIQKIKQQQYADLL  
SHDQLLTERREQVFLHFEEEEITFAPTYRFERLTRDKYAYTKQKATGMKYNLPSWCDRVLWKSYPVHVVCQSY  
GSTSDIMTSDHSPVFATFEAGVTSQFVSKNGPGTVDSQGQIEFLRCYATLTKTSQTKFYLEFHSSCLESFVKSQE  
GENEEGSEGELVVKFGETLPKLPKPIISDPEYLLDQHILISIKSSDSDESYGEGCIALRLEATETQLPIYTPLTHH  
GELTGHFQGEIKLQTSQGKTREKLYDFVKTERDESSGPKTLKSLTSHDPMKQWEVTSRAPPCSGSSITEIINPNY  
MGVGPFPGPPMPLHVKQTLSPDQOPTAWSYDQPPKDSPLGFCRGESEPTPPGQPPISPKKFLPSTANRGLPPRTQE  
SRPSDLGKNAGDTLPQEDLPLTKPEMFENPLYGSLSSFPPKAPRKDQESPKMPRKEPPPCPEPGILSPSIVLTKA  
QEADRGEQPGKQVPAPRLRSFTCSSSAEGRAAGGDKSQGKPKTPVSSQAPVPAKRPIKPSRSEINQQTPTPTPR  
PPLPVKSPAVLHLQHSKGRDYRDNTELPHHGKHRPEEGPPGPLGRTAMQ

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**FIGURE 1024**

CGAGCGGACTCGACTCGGCACCGCTGTGCACCATGCCCCGGGCCCTGTGCCGCCTCCCGCGGCGCGGCCTCTGGC  
TGCTCCTGGCCCATCACCTCTTCATGACCACTGCCTGCCAGGAGGCTAACTACGGTGCCCTCCTCCGGGAGCTCT  
GCCTCACCCAGTTCCAGGTAGACATGGAGGCCGTCGGGGAGACGCTGTGGTGTGACTGGGGCAGGACCATCAGGA  
GCTACAGGGAGCTGGCCGACTGCACCTGGCACATGGCGGAGAAGCTGGGCTGCTTCTGGCCCAATGCAGAGGTGG  
ACAGGTTCTTCCTGGCAGTGCATGGCCGCTACTTCAGGAGCTGCCCCATCTCAGGCAGGGCCGTGCGGGACCCGC  
CCGGCAGCATCCTCTACCCCTTCATCGTGGTCCCCATCACGGTGACCCTGCTGGTGACGGCACTGGTGGTCTGGC  
AGAGCAAGCGCACTGAGGGCATTGTGTTAGGCGGGGCCCCAGGCTGCCCGCGGGTGACCCAGGCTGCAGGGTGAGG  
CCAGGCAGGCCTGGGTAGGGGCAGCTTCTGGAGCCTTGGGACAGAGCAGGCCCCACAATGCCCCCTTCTTCCAGC  
CAAGAAGAGCTCACAGGAGTCCAGAGTAGCCGAGGCTCTGGTATTAACTGGAAGCCCCCTGGCTGGAGGCCAC  
CGCCACCCTAGGAAGGGGGCAGGGACGTGACCTTGACTTACCTCTGGAAAGGGTCCCAGCCTAGACTGCTTACCC  
CATAGCCACATTTGTGGATGAGTGGTTTGTGATTAAAAGGGATGTTCTTG



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**FIGURE 1025**

MARALCRLPRRGLWLLLAHHLFMTTACQEANYGALLRELCLTQFQVDMEAVGETLWCDWGRTIRSYRELADCTWH  
MAEKLGCFWPNAEVDREFFLAVHGRYFRSCPISGRAVRDPPGSILYPFIVVPITVTLLVTALVVWQSKRTEGIV

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**FIGURE 1026A**

GGCACGAGGCCGCTCCCCGGCGGGCTGGCTCCTGGCCCCGGAAGCGCGAGCGTTCACTTAGCGGCGAGTGGCTCC  
GTCTCCGCGGACAGAGCGCGCCCCCTGGCCCCGGCCGCGAGGGGCTCCCGGCGCGGTCCCCGAGCATTTCCTCG  
CCGGGTGGAGCGGGCCGAGCCCCGGCAGGATGACCAGCCCCGCGGCCGCTCAAAGCCGGGAGATCGACTGTTTGAG  
CCCGGAAGCGCAGAAGCTGGCGGAAGCCCCGGCTCGCTGCAAAACGGGCGGCCCGCGCGGAGGCTCGCGAGATCCG  
CATGAAGGAGCTGGAGCGGCAGCAGAAGGAGGAAGACAGTGAGCGCTACTCTCGTAGATCCAGAAGAAACACATC  
GGCTTCTGATGAAGACGAGCGCATGTCACTGGGTAGTCTGTGGAAGCCTGAGGGTAGAAGAGAGACCAGAAAAAGA  
TTTTACTGAGAAGGGGTCTCGTAACATGCCGGGCCCTGTCTGCAGCCACGCTGGCCTCTCTGGGTGGGACTTCCTC  
TCGGAGAGGCAGCGGAGACACCTCCTTCTCCATCGACACCGAGGCATCCATCAGGGAAATCAAGGACTCTCTAGC  
AGAAGTTGAAGAGAAATATAAGAAGGCTATGGTTTCCAATGCTCAGCTAGACAATGAAAAGACAAACTTCATGTA  
CCAGGTTGATACCCTAAAAGATATGTTGCTGGAGCTTGAAGAACAGCTGGCTGAATCTAGGCGGCAGTACGAAGA  
GAAAAACAAAGAATTTGAAAGGGAAAAACACGCCCACAGTATACTGCAATTTTCAGTTTGCTGAAGTCAAGGAGGC  
CCTGAAGCAAAGAGAGGAAATGCTCGAGAAACATGGAATAATCCTAAATTCAGAAATAGCTACCAATGGAGAGAC  
TTCCGACACCCTCAATAATGTTGGATACCAAGGTCTTACCAAGATGACAAAAGAAGAGTTAAATGCCCTCAAGTC  
TACAGGGGATGGGACCCTAGGAAGAGCCAGTGAAGTGGAGGTGAAAAATGAAATCGTGGCGAATGTGGGGAAAAAG  
AGAAATCTTGACAACTACTGAGAAAGAACAACACACAGAGGACACAGTGAAGGACTGTGTGGACATAGAGGTATT  
CCCTGCTGGTGAGAATACCGAGGACCAGAAATCCTCTGAAGACACTGCCCCATTCTAGGAACCTTAGCAGGTGC  
TACCTATGAAGAACAGGTTCAAAGCCAAATTTCTTGAGAGCAGTTCTCTCCCTGAAAACACAGTACAGGTTGAGTC  
AAATGAGGTCATGGGTGCACCAGATGACAGGACCAGAACTCCCCTTGAGCCATCCAAGTGTGGAGTGACTTAGA  
TGGTGGGAACCACACAGAGAATGTGGGAGAGGCAGCAGTGACTCAGGTTGAAGAGCAGGCAGGCACAGTGGCCTC  
GTGTCCTTTAGGGCATAGTGATGACACAGTTTATCATGATGACAAATGTATGGTAGAGGTCCCCAAGAGTTAGA  
GACAAGCACAGGGCATAGTTTATAGAGAAAGAATTCACCAACCAGGAAGCAGCTGAGCCCAAGGAGGTTCCAGCGCA  
CAGTACAGAAGTAGGTAGGGATCACAACGAAGAAGAGGGTGAAGAAACAGGATTAAGGGACGAGAAACCAATCAA  
GACAGAAGTTCTGGTCTCCAGCAGGAAGTGAAGGCAACTGTGAGGAAGCGACAGGTCCAAGTACAGTAGACAC  
TCAAAATGAACCCTTAGATATGAAAGAGCCCGATGAAGAAAAGAGTGACCAACAGGGAGAGGCATTGGACTCATC  
GCAGAAGAAGACAAAGAACAAGAAAAAGAAAAACAAGAAGAAAAAATCCCCAGTACCCGTAGAAACCCTTAAAGA  
TGTTAAAAAGAGTTAACGTATCAGAACACAGATTTAAGTGAAATTAAGGAAGAAGAGCAGGTAAAGTCTACTGA  
CAGAAAGTCAGCAGTGGAAGCCCCAAAACGAGGTGACTGAAAATCCAAAACAGAAAATTGCAGCAGAAAGCAGTGA  
AAATGTTGATTGTCCGAGAATCCTAAAATTAAGTTGGATGGAAGAACTTGACCAAGAAGGTGATGATGTACAAAC  
AGCAGCTGAGGAGGTACTAGCTGATGGAGACACATTAGATTTTGGAGATGACACCGTTCAATCATCAGGCCCGAG  
GGCTGGTGGTGAAGAATTAGATGAAGGTGTTGCAAAAGATAATGCTAAAATAGATGGTGCCACTCAAAGCAGTCC  
TGCAGAACCAAAGAGCGAAGACGCAGATCGCTGCACCCTGCCCGAACATGAAAGTCCCTCACAGGACATTAGTGA  
TGCCTGTGAAGCAGAAAGTACAGAGAGGTGTGAGATGTGAGAACATCCAAGTCAGACCGTCAGGAAAGCTTTAGA  
CAGCAATAGCCTAGAGAACGATGACTTGTGCGCACCCAGGAAGAGAGGCCAGGGCACTTCAATCCAGAAAGCAGAGA  
AGATACCAGAGGAGGGAATGAGAAGGGCAAAAGCAAAGAAGACTGTACCATGTCCCTAAGCTGAGGCAGGCGGCAG  
GCGCGGTGCACAGGAAGTCTCAGTGTGAAGGGGTCTTTTCTCTCCACTGCCAATGTAAGTAGAATGTTCTAAATT  
CATAGAGAGGCACTGTATGACAATTACCAGGTGCTCTACTGCTTTAAGTTATAGACTGTTACTTGTAGATTTCCA  
TGTAATCATTGAGGTTATCACCAGATTAGAAAGACATATTTGTTATCAGTGTACGTTCTAATTGAGAGCATTCC  
AGTAGTATCAACAATAATGTCTACTGTTTATAGTCCACTTAATAAAAAATAGAGGCATTTACTATTTGCCTTAGG  
CTGATAGGAATGTGGGTTTTCTTGACCAAATATATCAGCATCTAATTGAAATGACCAAATAGCATTCTTAGACTT  
CTGTATTATGAATATAATTGATATTTAAATTAATGTCTTGTTACATATGTGTACTTTTCATATTTGATTTTAAAA  
TGTACATTATAACCTGTATGGTATTTTAAAGGAGATAAACAGCCAAATAGCAAATAGGTCAGTGAATGATA  
AGATTTGCACCTTAGAACAATAATCATTTTAAAGGATAACAAGTAAATGTCTGAAAGCATGAGGGGCTTTATTTGC  
CTTTACCTCATATGAGTCTTTGATCTTGAACCGATACTTTTGGATCTCATTGTTGATATACCTGAATTTACTTTG  
TAAGAGATTTTAACTTCATCTGCTGATGATGTATCAAATTCATTTTATAGAAAGATTTAAAGTTTTTTTCTG  
GAAGTGATATATGTCAAATTACATTTCTACTGCAGTATTTGAGCAGGGACAGTCATTTTTTAAATGTTTTTGGC  
CGGGCGTGGTGGCTCATGCCTGTAATCTCAGTACATTGGGAGGCCAAGGCAGGTGGATCACCTGAGGTCAAGAGT  
TCGAGGCCAGCCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAAATTGGCCGGGCGTGATGGTG  
GGCGCTGTAATCCCAGCCACTCCAGAGGCTGAGGCAGGAGAATCGCTTGAACCTGCGAGGCAGAGATTGCAGTG

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**FIGURE 1026B**

AGCCAAGATCAAGCCATTGTACTCCAGCCTGGACAACAAGAGCGAAACTCTGTCTA

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**FIGURE 1027**

MTSPAAAQSREIDCLSPEAQKLAEARLAAKRAARAEAREIRMKELERQQKEEDSERYSRRSRNRNTSASDEDERMS  
VGSRGSLRVEERPEKDFTEKGSRNMPGLSAATLASLGGTSSRRGSGDTSFSIDTEASIREIKDSLAEVEEKYKKA  
MVSNAQLDNEKTNFMYQVDTLKDMLLELEEQLAESRRQYEEKNKEFEREKHAHSILQFQFAEVKEALKQREEMLE  
KHGIILNSEIATNGETSDTLNNGYQGPTKMTKEELNALKSTGDGTLGRASEVEVKNEIVANVGKREILHNTEKE  
QHTEDTVKDCVDIEVFPAGENTEDQKSSED TAPFLGTLGATYEEQVQSQILESSSLPENTVQVESNEVMGAPDD  
RTRTPLEPSNCWSDLDGGNHTENVGEAAVTQVEEQAGTVASCPLGHSDDTVYHDDKCMVEVPQELETSTGHSLEK  
EFTNQEAAPKEVPAHSTEVGRDHNEEEGEETGLRDEKPIKTEVPGSPAGTEGNCQEATGPSTVDTQNEPLDMKE  
PDEEKSDQQGEALDSSQKKTNNKKKKNNKKKKSPVPVETLKDVKKELTYQNTDLSEIKEEEQVKSTDRKSAVEAQN  
EVTENPKQKIAAESSENVDCPENPKIKLDGKLDQEGDDVQTAAEEVLADGDTLDFEDDTVQSSGPRAGGEELDEG  
VAKDNAKIDGATQSSPAEPKSEDADRCTLPEHESPSQDISDACEAESTERCCEMSEHPSQTVRKALDSNSLENDL  
SAPGREPGHFNPESEDTRGGNEKGKSKEDCTMS

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**FIGURE 1028A**

CAGTTTGGAGCTCAGTCTTCCACCAAAGGCCGTTTCAGTTCTCCTGGGCTCCAGCCTCCTGCAAGGACTGCAAGAG  
TTTTCTCCGCAGCTCTGAGTCTCCACTTTTTTGGTGGAGAAAGGCTGCAAAAAGAAAAGAGACGCAGTGAGTG  
GAAAAGTATGCATCCTATTCAAACCTAATTGAATCGAGGAGCCCAGGGACACACGCCCTTCAGGTTTGCTCAGGG  
GTTCAATTTGGTGTCTTAGACAAATTCAAATGAGGAACATCGGCACTTGCCCTTAGTGGCCGTCTTTTGCCCTC  
TTTCTCTCAGGCTTTCTTACAACCTCATGCCCAGCAGCAGCAAGCAGATGTCAAAAATGGTGGCGGTGCTGATATA  
ATATTTCTAGTGGATTCTCTTGGACCATTGGAGAGGAACATTTCCAACCTGTTCGAGAGTTTCTATATGATGTT  
GTAAAATCCTTAGCTGTGGGAGAAAATGATTTCCATTTTGCTCTGGTCCAGTTCAACGGAAACCCACATACCGAG  
TTCTGTGTTAAATACGTATCGTACTAAACAAGAAGTCCTTTCTCATATTTCCAACATGTCTTATATTGGGGGAACC  
AATCAGACTGGAAAAGGATTAGAATACATAATGCAAAGCCACCTCACCAAGGCTGCTGGAAAGCCGGGCCGGTGAC  
GGAGTCCCTCAGGTTATCGTAGTGTTAACTGATGGACACTCGAAGGATGGCCTTGCTCTGCCCTCAGCGGAACCTT  
AAGTCTGCTGATGTTAACGTGTTTGCAATTGGAGTTGAGGATGCAGATGAAGGAGCGTTAAAAGAAATAGCAAGT  
GAACCGCTCAATATGCATATGTTCAACCTAGAGAATTTTACCTCACTTCATGACATAGTAGGAACTTAGTGTC  
TGTGTGCATTTCATCCGTGAGTCCAGAAAGGGCTGGGGACACGGAAACCCCTTAAAGACATCACAGCACAAAGACTCT  
GCTGACATTATTTTCTTATTGATGGATCAAACAACCCGGAAGTGTCAATTTTCGCAGTCATTCTCGACTTCCTT  
GTAAATCTCCTTGAGAACTCCCAATTGGAACCTCAGCAGATCCGAGTGGGGGTGGTCCAGTTTAGCGATGAGCCC  
AGAACCATGTTCTCTTGGACACCTACTCCACCAAGGCCAGGTTCTGGGTGCAGTGAAAGCCCTCGGGTTTGCT  
GGTGGGGAGTTGGCCAATATCGGCCCTCGCCCTTGATTTCTGTTGGTGGAGAACCCTTCAACCGGGCAGGGGGCAGC  
CGCGTGGAGGAAGGGGTTCCTCAGGTGCTGCTCCTCATAAGTGCCGGGCCCTTCTAGTGACGAGATTCGCTACGGG  
GTGGTAGCACTGAAGCAGGCTAGCGTGTTCTCATTGGCCCTTGGAGCCCAGGCCCGCCTCCAGGGCAGAGCTTCAG  
CACATAGCTACCGATGACAACCTTGGTGTTTACTGTCCCGGAATTCCTAGCTTTGGGGACCTCCAGGAGAAATTA  
CTGCCGTACATTGTTGGCGTGGCCCCAAAGGCACATTGTCTTGAAACCGCCAACCATTGTACACAAGTCATTGAA  
GTCAACAAGAGAGACATAGTCTTCTGGTGGATGGCTCATCTGCACTGGGACTGGCCAACCTTCAATGCCATCCGA  
GACTTCATTGCTAAAGTCATCCAGAGGCTGGAAATCGGACAGGATCTTATCCAGGTGGCAGTGGCCCAGTATGCA  
GACACTGTGAGGCCTGAATTTTATTTCATACCCATCCAACAAAAGGGAAGTCATAACCGCTGTGCGGAAAATG  
AAGCCCTGGACGGCTCGGCCCTGTACACGGGCTCTGCTCTAGACTTTGTTTCGTAACAACCTATTCACGAGTTCA  
GCCGGCTACCGGGCTGCCGAGGGGATTCTAAGCTTTTGGTGTGATCACAGGTGGTAAGTCCCTAGATGAAATC  
AGCCAGCCTGCCCAGGAGCTGAAGAGAAGCAGCATAATGGCCTTTGCCATTGGGAACAAGGGTGCCGATCAGGCT  
GAGCTGGAAGAGATCGCTTTTCGACTCCTCCTGGTGTTCATCCCAGCTGAGTTCCGAGCCGCCCCATTGCAAGGC  
ATGCTGCCTGGCTTGCTGGCACCTCTCAGGACCCTCTCTGGAACCCCTGAAGTTCACTCAAACAAAAGGGATATC  
ATCTTTCTTTTGGATGGATCAGCCAACGTTGGAACCAATTTCCCTTATGTGCGCGACTTTGTAATGAACCTA  
GTTAACAGCCTTGATATTGGAATGACAATATTCGTGTTGGTTTATGTGCAATTTAGTGACACTCCTGTAACGGAG  
TTCTCTTTAAACACATACCAGACCAAGTCAGATATCCTTGGTCTATCTGAGGCAGCTGCAGCTCCAGGGAGGTTTCG  
GGCCTGAACACAGGCTCAGCCCTAAGCTATGTCTATGCCAACCCTTACGGAAGCTGGCGGCAGCAGGATCCGT  
GAACACGTGCCGAGCTCCTGCTTCTGCTCACAGCTGGGCAGTCTGAGGACTCCTATTTGCAAGCTGCCAACGCC  
TTGACACGCGCGGGCATCCTGACTTTTTGTGTGGGAGCTAGCCAGGCGAATAAGGCAGAGCTTGAGCAGATTGCT  
TTTAACCCAAGCCTGGTGTATCTCATGGATGATTTACGCTCCCTGCCAGCTTTGCCTCAGCAGCTGATTACAGCCC  
CTAACCACATATGTTAGTGGAGGTGTGGAGGAAGTACCACTCGCTCAGCCAGAGAGCAAGCGAGACATTCTGTTT  
CTCTTTGACGGCTCAGCCAATCTTGTGGGCCAGTTCCCTGTTGTCCGTGACTTTCTCTACAAGATTATCGATGAG  
CTCAATGTGAAGCCAGAGGGGACCCGAATTGCGGTGGCTCAGTACAGCGATGATGTCAAGGTGGAGTCCCGTTTT  
GATGAGCACCAGAGTAAGCCTGAGATCCTGAATCTTGTGAAGAGAATGAAGATCAAGACGGGCAAAGCCCTCAAC  
CTGGGCTACGCGCTGGACTATGCACAGAGGTACATTTTTGTGAAGTCTGCTGGCAGCCGGATCGAGGATGGAGTG  
CTTCAGTTCTGGTGTGCTGGTTCGAGGAAGGTATCTGACCGTGTGGATGGGCCAGCAAGTAACCTGAAGCAG  
AGTGGGGTTGTGCCTTTCTCTTCCAAGCCAAGAACGCAGACCCTGCTGAGTTAGAGCAGATCGTGCTGTCTCCA  
GCGTTTATCCTGGCTGCAGAGTGCCTTCCCAAGATTGGAGATCTTCATCCACAGATAGTGAATCTCTTAAATCA  
GTGCACAACGGAGCACCAGCACCAGTTTCAGGTGAAAAGGACGTGGTGTCTGCTTGATGGCTCTGAGGGCGTC  
AGGAGCGGTTTCCCTCTGTTGAAAGAGTTTGTCCAGAGAGTGGTGGAAAGCCTGGATGTGGGCCAGGACCGGGTC  
CGCGTGGCCGTGGTGCAGTACAGCGACCGGACCGGAGTTCTACCTGAATTCATACATGAACAAGCAGGAC  
GTCGTCAACGCTGTCCGCCAGCTGACCCTGCTGGGAGGGCCGACCCCAACACCGGGGCCGCCCTGGAGTTTGTC

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**FIGURE 1028B**

CTGAGGAACATCCTGGTCAGCTCTGCGGGAAGCAGGATAACAGAAGGTGTGCCCCAGCTGCTGATCGTCCTCACG  
GCCGACAGGTCTGGGGATGATGTGCGGAACCCCTCCGTGGTCTGTAAGAGGGGTGGGGCTGTGCCCCATTGGCATT  
GGCATCGGGAACGCTGACATCACAGAGATGCAGACCATCTCCTTCATCCCGACTTTGCGGTGGCCATTCCCACC  
TTTCGCCAGCTGGGGACCGTCCAACAGGTTCATCTCTGAGAGGGTGACCCAGCTCACC CGCGAGGAGCTGAGCAGG  
CTGCAGCCGGTGTTCAGCCTCTACCGAGCCAGGTGTTGGTGGCAAGAGGGACGTGGTCTTTCTCATCGATGGG  
TCCCAAAGTGCCGGGCTGAGTTCAGTACGTTTCGCACCCTCATAGAGAGGCTGGTTGACTACCTGGACGTGGGC  
TTTGACACCACCCGGGTGGCTGTTCAGTTCAGCGATGACCCCAAGGTGGAGTTCCTGCTGAACGCCCATTC  
AGCAAGGATGAAGTGCAGAACGCGGTGCAGCGGCTGAGGCCCAAGGGAGGGCGGCAGATCAACGTGGGCAATGCC  
CTGGAGTACGTGTCCAGGAACATCTTCAAGAGGGCCCCCTGGGGAGCCGCATTGAAGAGGGCGTCCCGCAGTTCCTG  
GTCTCTCATCTCGTCTGGAAAGTCTGACGATGAGGTGGACGACCCGGCGGTGGAGCTCAAGCAGTTTGGCGTGGCC  
CCTTTACGATCGCCAGGAACGCAGACCAGGAGGAGCTGGTGAAGATCTCGCTGAGCCCCGAATATGTGTCTCG  
GTGAGCACCTTCCGGGAGCTGCCCAGCCTGGAGCAGAACTGCTGACGCCCATCACGACCCTGACCTCAGAGCAG  
ATCCAGAAGCTCTTAGCCAGCACTCGCTATCCACCTCCAGCAGTTGAGAGTGATGCTGCAGACATCGTCTTTCTG  
ATCGACAGCTCTGAGGGAGTTAGGCCAGATGGCTTTGCACATATTGAGATTTTGTAGCAGGATTGTTGGAAGA  
CTCAACATCGGCCCCAGTAAAGTGAGAGTTGGGGTCTGTCAGTTCAGCAATGATGTCTTCCAGAATTCTATCTG  
AAAACCTACAGATCCCAGGCCCCGGTGCTGGACGCCATACGGCGCTGAGGCTCAGAGGGGGTTCCCCACTGAAC  
ACTGGCAAGGCTCTCGAATTTGTGGCAAGAACTCTTTGTTAAGTCTGCGGGGAGTCGCATAGAAGACGGGGTG  
CCCCAACACCTGGTCTGGTCTGGGTGGAAATCCCAGGACGATGTGTCCAGGTTCCGCCAGGTGATCCGTTCC  
TCGGGCATTGTGAGTTTAGGGGTAGGAGACCGGAACATCGACAGAACAGAGCTGCAGACCATACCAATGACCCC  
AGACTGGTCTTACAGTGCGAGAGTTTACAGAGCTTCCCAACATAGAAGAAAGATCATGAACCTCGTTTGGACCC  
TCCGCAGCCACTCCTGCACCTCCAGGGGTGGACACCCCTCTCCTTCACGGCCAGAGAAGAAGAAAGCAGACATT  
GTGTTCTGTGGATGGTTCCATCAACTTCAGGAGGGACAGTTTCCAGGAAGTGCTTCGTTTTGTGTCTGAAATA  
GTGGACACAGTTTATGAAGATGGCGACTCCATCCAAGTGGGGCTTGTCCAGTACAACCTTGACCCCACTGACGAA  
TTCTTCTGAAGGACTTCTCTACCAAGAGGCAGATTATTGACGCCATCAACAAAGTGGTCTACAAAGGGGGAAGA  
CACGCCAACACTAAGGTGGGCCTTGAGCACCTGCGGGTAAACCACTTTGTGCCTGAGGCAGGCAGCCGCTGGAC  
CAGCGGGTCCCTCAGATTGCCTTTGTGATCACGGGAGGAAAGTCCGGTGGAAAGATGCACAGGATGTGAGCCTGGCC  
CTCACCAGAGGGGGGTCAAAGTGTTTGTGTTGGAGTGAGGAATATCGACTCGGAGGAGGTTGGAAAGATAGCG  
TCCAACAGCGCCACAGCGTTCCGCGTGGGCAACGTCCAGGAGCTGTCCGAAGTGAAGCGAGCAAGTTTTGGAACT  
TTGCATGATGCGATGCATGAAACCTTTGCCCTGGTGAACTGATGCTGCCAAAGCTTGTAATCTGGATGTGATT  
CTGGGGTTTGATGGTTCTAGAGACCAGAATGTTTTTGTGGCCAGAAAGGCTTCGAGTCCAAGGTGGACGCCATC  
TTGAACAGAATCAGCCAGATGCACAGGGTCAGCTGCAGCGGTGGCCGCTCGCCACCGTGCCTGTGTCAGTGGTG  
GCCAACACGCCCTCGGGCCCGGTGGAGGCCTTTGACTTTGACGAGTACCAGCCAGAGATGCTCGAGAAGTTCCGG  
AACATGCGCAGCCAGCACCCCTACGTCCTCACGGAGGACACCCCTGAAGGTCTACCTGAACAAGTTCAGACAGTCC  
TCGCCGACAGCGTGAAGGTGGTCATTCTTTACTGATGGAGCAGACGGAGATCTGGCTGATTTACACAGAGCA  
TCTGAGAACCTCCGCCAAGAAGGAGTCCGTGCCTTGATCCTGGTGGGCCCTGAACGAGTGGTCAACTTGGAGCGG  
CTAATGCATCTGGAGTTTGGGCGAGGGTTTATGTATGACAGGCCCTGAGGCTTAAGTGTGACTTGGATTAT  
GAACTAGCGGAGCAGCTTGACAACATTGCCGAGAAAGCTTGCTGTGGGGTTCCCTGCAAGTGCTCTGGGCAGAGG  
GGAGACCGCGGGCCCATCGGCAGCATCGGGCCAAAGGGTATTCTTGAGAGAACGGCTACCGAGGCTATCCTGGT  
GATGAGGGTGGACCCGGTGAGCGTGGTCCGCCTGGTGTGAACGGCACTCAAGGTTTCCAGGGCTGCCCGGGCCAG  
AGAGGAGTAAAGGGCTCTCGGGGATTCCCAGGAGAGAAGGGCGAAGTAGGAGAAATTGGACTGGATGGTCTGGAT  
GGTGAAGATGGAGACAAAGGATTACCTGGTTCTTCTGGAGAGAAAGGGAATCCTGGAAGAAGGGGTGATAAAGGA  
CCTCGAGGAGAGAAAGGAGAAAGAGGAGATGTTGGGATTTCAGAGGGACCCGGGTAAACCCAGGACAAGACAGCCAG  
GAGAGAGGACCCAAAGGAGAAACCGGTGACCTCGGCCCATGGGTGTCCAGGGAGAGATGGAGTACCTGGAGGA  
CCTGGAGAACTGGGAAGAAATGGTGGCTTTGGCCGAAGGGGACCCCCGGAGCTAAGGGCAACAAGGGCGGTCTT  
GGCCAGCCGGGCTTTGAGGGAGAGCAGGGGACCAGAGGTGCACAGGGCCAGCTGGTCTGCTGGTCTCCAGGG  
CTGATAGGAGAAACAAGGCATTTCTGGACCTCGGGGAAGCGGAGGTGCCGCTGGTGTCTCTGGAGAACGAGGCAGA  
ACCGGTCCACTGGGAAGAAAGGTGAGCCCGGAGAGCCAGGACCAAAAGGAGGAATCGGGAACCGGGGCCCTCGT  
GGGGAGACGGGAGATGACGGGAGAGACGGAGTTGGCAGTGAAGGACGCAGAGGCCAAAAAGGAGAAAGAGGATTT

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**FIGURE 1028C**

CCTGGATACCCAGGACCAAAGGGTAACCCAGGTGAACCTGGGCTAAATGGAACAACAGGACCCAAAGGCATCAGA  
GGCCGAAGGGGAAATTCGGGACCTCCAGGGATAGTTGGACAGAAGGGAGACCCTGGCTACCCAGGACCAGCTXXX  
XXXXXXGGCAACAGGGGCGACTCCATCGATCAATGTGCCCTCATCCAAAGCATCAAAGATAAATGCCCTTGCTGT  
TACGGGCCCCCTGGAGTGCCCCGTCTTCCCAACAGAACTAGCCTTTGCTTTAGACACCTCTGAGGGAGTCAACCAA  
GACACTTTTCGGCCGGATGCGAGATGTGGTCTTGAGTATTGTGAATGACCTGACCATTGCTGAGAGCAACTGCCCA  
CGGGGGGCCCCGGGTGGCTGTGGTCACCTACAACAACGAGGTGACCACGGAGATCCGGTTTGCTGACTCCAAGAGG  
AAGTCGGTCCTCCTGGACAAGATTAAGAACCTTCAGGTGGCTCTGACATCCAAACAGCAGAGTCTGGAGACTGCC  
ATGTGCTTTGTGGCCAGGAACACATTTAAGCGTGTGAGGAATGGATTCTAATGAGGAAAAGTGGCTGTTTTCTTC  
AGCAACACACCCACAAGAGCATCCCCACAGCTCAGAGAGGCTGTGCTCAAGCTCTCAGATGCGGGGATCACCCCC  
TTGTTCCCTTACAAGGCAGGAAGACCGGCAGCTCATCAACGCTTTGCAGATCAATAACACAGCAGTGGGGCATGCG  
CTTGCTCCTGCCTGCAGGGAGAGACCTCACAGACTTCCTGGAGAATGTCTCAGTGTGATGTTTGCTTGGACATC  
TGCAACATCGACCCATCCTGTGGATTGCGAGTTGGAGGCCTTCCTTCAGGGACAGGAGAGCGGCAGGGAGCGAT  
GTGGACATCGACATGGCTTTCATCTTAGACAGCGCTGAGACCACCACCCTGTTCCAGTTCAATGAGATGAAGAAG  
TACATAGCGTACCTGGTCAGACAACCTGGACATGAGCCCAGATCCCAAGGCCTCCAGCACTTCGCCAGAGTGGCA  
GTTGTGCAGCAGCGCCCTCTGAGTCCGTGGACAATGCCAGCATGCCACCTGTGAAGGTGGAATTTCTCCCTGACT  
GACTATGGCTCCAAGGAGAAGCTGGTGGACTTCCTCAGCAGGGGAATGACACAGTTGCAGGGAACCAGGGCCTTA  
GGCAGTGCCATTGAATACACCATAGAGAAATGTCTTTGAAAGTGCCCCAAACCCACGGGACCTGAAAATTGTGGTC  
CTGATGCTGACGGGCGAGGTGCCGGAGCAGCAGCTGGAGGAGGCCAGAGAGTATCCTGCAGGCCAAATGCAAG  
GGCTACTTCTTCGTGGTCTCGGGCATTGGCAGGAAGGTGAACATCAAGGAGGTATACACCTTCGCCAGTGAGCCA  
AACGACGTCTTCTCAAATTAGTGACAAAGTCCACCGAGCTCAACGAGGAGCCTTTGATGCGCTTCGGGAGGCTG  
TTGCCATCCTTCGTGAGCAGTGAAAATGCTTTTTACTTGTCCCCAGATATCAGGAAACAGTGTGATTGGTTCCAA  
GGGGACCAACCCACAAAGAACCTTGTGAAGTTTGGTCACAAACAAGTAAATGTTCCGAATAACGTTACTTCAAGT  
CCTACATCCAACCCAGTGACGACAACGAAGCCGGTGACTACGACGAAGCCGGTGACCACCACAACAAAGCCTGTA  
ACCACCACAACAAAGCCTGTGACTATTATAAATCAGCCATCTGTGAAGCCAGCCGCTGCAAAGCCGGCCCCCTGCG  
AAACCTGTGGCTGCCAAGCCTGTGGCCACAAAGACGGCCACTGTTAGACCCCCAGTGGCGGTGAAGCCAGCAACG  
GCAGCGAAGCCTGTAGCAGCAAGCCAGCAGCTGTAAGACCCCCGCTGCTGCTGCAAAACCAGTGGCGACCAAG  
CCTGAGGTCCCTAGGCCACAGGCAGCCAAACCAGTGCCACCAAGCCAGCCACCACTAAGCCCATGGTTAAGATG  
TCCCGTGAAGTCCAGGTGTTTTGAGATAACAGAGAACAGCGCCAAACTCCACTGGGAGAGGCCTGAGCCCCCGGT  
CCTATTTTTTATGACCTCACCGTCACTCAGCCCATGATCAGTCCCTGGTTCTGAAGCAGAACCTCACGGTCACG  
GACCGCGTCATTGGAGGCCTGCTCGCTGGGCAGACATACCATGTGGCTGTGGTCTGCTACCTGAGGTCTCAGGTC  
AGAGCCACCTACCATGGAAGTTTTCAGTACAAAGAAATCTCAGCCCCACCTCCACAGCCAGCAAGGTGAGCTTCT  
AGTTCAACCATCAATCTAATGGTGAGCACAGAACCATTGGCTCTCACTGAAACAGATATATGCAAGTTGCCGAAA  
GACGAAGGAACCTGCAGGGATTTTCATATTAATAATGGTACTATGATCCAAACACCAAAAGCTGTGCAAGATTCTGG  
TATGGAGGTTGTGGTGGAACGAAAACAAATTTGGATCACAGAAAGAATGTGAAAAGGTTTGCGCTCCTGTGCTC  
GCCAAACCCGGAGTCATCAGTGTGATGGGAACCTAAGCGTGGGTGGCCAACATCATATACCTCTTGAAGAAGAAG  
GAGTCAGCCATCGCCAACTTGTCTCTGTAGAAGCTCCGGGTGTAGATTCCCTTGCACTGTATCATTTTCATGCTTT  
GATTTACACTCGAACTCGGGAGGGAACATCCTGCTGCATGACCTATCAGTATGGTGCTAATGTGTCTGTGGACCC  
TCGCTCTCTGTCTCCAGGCAGTTCTCTCGAATACTTTGAATGTTGTGTAACAGTTAGCCACTGCTGGTGTATG  
TGAACATTCCTATCAATCCAAATTCCTCTGGAGTTTTCATGTTATGCCTGTTGCAGGCAAATGTAAAGTCTAGAA  
AATAATGCAATGTACGGCTACTCTATATACTTTTGCTTGGTTCAATTTTTTTTTCCCTTTTAGTTAAGCATGACT  
TTAGATGGGAAGCCTGTGTATCGTGAGAAACAAGAGACCAACTTTTTTCATTCCCTGCCCCCAATTTCCCAGACT  
AGATTTCAAGCTAATTTTTCTTTTTCTGAAGCCTCTAACAATGATCTAGTTTCAAGGAAGCAAAATCCCTTAAT  
CTATGTGCACCGTTGGGACCAATGCCTTAATTAAGAATTTAAAAAAGTTGTAATAGAGAATATTTTTGGCATTC  
CTCTAATGTTGTGTGTTTTTTTTTTTTTGTGTGCTGGAGGGAGGGGATTTAATTTTAATTTTAAATGTTTAGGAA  
ATTTATACAAAGAACTTTTTAATAAGTATATTGAAAGTTT

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**FIGURE 1029**

AGCCCAGCGAGGCCTGTGCTGTGAGGGGCTGTGCTGTGCCAGGGGAGGCCCCGCACCCGGGAAGCCCAGAGGAGA  
GTGTGCACTCACGGAGCCCTCCTGGCAGGGCCGCGTCTCTGGAGCAGCAGACCCGTGTCCCTCTGGGAGGTCAAC  
TGCGGCCTCACAGCTGGGCCTGTCCCAGCACAGCCCTTGTTGGAGGGCGCACCCCGTGTCTCAGCACCCAGT  
GTTGAGTGCCTTGACCTGCAGAGGGGAGCCTGTGCTGGTCCCGGGCGTCTGTGTGGCTCCTGGGTGCCCATCTGC  
ACCCCTGGCCCTGCTCTGGGCTTCAGTGGAGCCGTGCCACCGTGGGAGTGTCCAGGGTCTTGACGTAGCCCTGAG  
ACGTGGCCAGCTCCCTGGCCTGCTGCCCGCACAGTGGGCCCTTGCTCTGCTCTGGGTGAGCGAGGCAGCCACC  
CATGATGAGCTCTGCAGCCTTCCCAAGGTGGCTGAGCATGGGGGTCCCTCGTACCCCTTCACGGACAGTGCTCTT  
CGAGCGGGAGAGGACGGGCCTGACCTACCGCGTGCCTCGTTGCTCCCCGTGCCCCCGGGCCCACCCTGCTGGC  
CTTTGTGGAGCAGCGGCTCAGCCCTGACGACTCCACGCCCACCGCCTGGTGCTGAGGAGGGGCACGCTGGCCGG  
GGGCTCCGTGCGGTGGGGTGCCCTGCACGTGCTGGGGACAGCAGCCCTGGCGGAGCACCGGTCCATGAACCCCTG  
CCCTGTGCACGATGCTGGCACGGGCACCGTCTTCCTCTTCTTCATCGCGGTGCTGGGCCACACGCTGAGGCCGT  
GCAGATCGCCACGGGAAGGAACGCCGCGCGCCTCTGCTGTGTGGCCAGCCGTGACGCCGGCCTCTCGTGGGGCAG  
CGCCCGGGACCTACCGAGGAGGCCATCGGTGGTGCCGTGCAGGACTGGGCCACATTGCTGTGGGTCCCGGCCA  
CGGCGTGAGCTGCCCTCAGGCCGCTGCTGGTACCCGCTACACCTACCGCGTGGACCGCCGAGAGTGTTTTGG  
CAAGATCTGCCGACCAGCCCTCACTCCTTCGCCTTCTACAGCGATGACCACGGCCGCACCTGGCGCTGTGGAGG  
CCTCGTGCCCAACCTGCGCTCAGGCGAGTGCCAGCTGGCGGCGGTGGACGGTGGGCAGGCCGGCAGCTTCCTCTA  
CTGCAATGCCCGGAGCCCACTGGGCAGCCGTGTGCAGGCGCTCAGCACTGACGAGGGCACCTCCTTCCTGCCCGC  
AGAGCGCGTGGCTTCCCTGCCCGAGACTGCCTGGGGCTGCCAGGGCAGCATCGTGGGCTTCCCAGCCCCCGCCCC



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**FIGURE 1030**

GAATTGGCAGCCAACATGCGGCGGGAACGCGGCGCGGGGCAGCAACAGTCGCAGGAGATGATGGAGGTTGACAGG  
CGGGTCGAGTCTGAAGAATCCGGCGATGAAGAAGGGAAGAAACACAGCAGTGGCATCGTGGCCGACCTCAGTGAA  
CAGAGCCTGAAGGATGGGGAGGAGCGGGGGGAGGAGGACCCAGAAGAAGAACATGAGCTGCCTGTGGACATGGAA  
ACCATCAACCTGGACAGAGATGCAGAGGATGTTGATTTGAATCACTATCGCATAGGGAAGATTGAAGGATTTGAG  
GTACTGAAGAAAGTGAAGACTCTCTGCCTCCGCCAAAATTTAATTAAATGCATTGAGAATCTGGAGGAGCTACAG  
AGTCTTCGAGAGCTGGATCTTTACGACAACCAGATCAAGAAGATTGAGAATCTGGAGGCGCTAACAGAGCTGGAG  
ATTCTAGATATTTCTTTTAATCTGCTGAGAAACATCGAAGGGGTTGACAAGTTGACACGACTGAAAAAACTCTTC  
TTGGTCAACAATAAAATCAGTAAAATTGAGAACTTAAGCAACTTACATCAACTACAGATGCTAGAGCTGGGATCT  
AACCGCATCCGGGCAATCGAAAATATCGACACCTTAACCAACCTGGAGAGTTTGTTTTTGGGGAAAAACAAAATT  
ACTAACTTCAGAACCTGGATGCGCTCACCAACCTGACAGTCCTCAGTATGCAGAGCAACCGGCTGACCAAGATC  
GAGGGTCTGCAGAACCTGGTGAACCTGCGGGAGCTGTACCTTAGCCACAATGGCATCGAGGTCATCGAGGGCCTG  
GAGAACAATAACAACTCACGATGTTGGACATTGCATCAAATAGAATCAAAAAGATTGAAAAATATCAGCCATCTA  
ACAGAGCTGCAAGAGTTCTGGATGAACGACAATCTCCTTGAGAGCTGGAGCGACCTCGACGAGCTGAAGGGAGCC  
AGGAGCCTGGAGACAGTGTACCTGGAGCGGAACCCCTTGCAAGAGACCCCACTACCGGCGGAAGGTCATGCTC  
GCCCTCCCCTCCGTGCGGCAGATCGATGCCACGTTTCGTGAGTTCTGAGTCCTTCTTGGCTCCTCATGTGGTCCC  
TCTCTCGGAAGAACTGCCCAGCCACGGGTTTTTAACCCACCTGTTGCTCCTGAGGTCGTCACTATATCAACAGT  
CACAAACCCAATGGCAATAAAGGCACTGACGATAGCTGGCGCGCGACGCCACACACCATTTTCAGATGCCGTT  
GCAATTAAATCTTGCCACACTGTC

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**FIGURE 1031**

MAAERGAGQQSQEMMEVDRRVESEESGDEEGKKHSSGIVADLSEQSLKDGEERGEEDPEEEHELPVDMETINLD  
RDAEDVDLNHYRIGKIEGFVLKKVKTLCRLQNLKCIENLEELQSLRELDLYDNQIKKIEENLEALTELEILDIS  
FNLLRNIEGVDKLTRKKLFLVNNKISKIENLSNLHQLQMLELGSNRIRAIENIDTLTNLESFLGKNKITKLQN  
LDALTNLTVLSMQSNRLTKIEGLQNLVNLRELYLSHNGIEVIEGLENNNKLTMLDIASNRIKKIENISHLTELQE  
FWMNDNLLESWSDLDELKGARSLETVYLERNPLQKDPQYRRKVMLALPSVRQIDATFVRF

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**FIGURE 1032A**

CAAAAGCTGGCAGGCTGACAGAGGCGGCCTCAGGACGGACCTTCTGGCTACTGACCGTTTTGCTGTGGTTTTCCC  
GGATTGTGTGTAGGTGTGAGATCAACCATGAGTTCCGTTGCAGTTTTGACCCAAGAGAGTTTTGCTGAACACCGA  
AGTGGGCTGGTTCCGCAACAAATCAAAGTTGCCACTCTAAATTGAGAAGAGGAGAGCGACCCTCCAACCTACAAG  
GATGCCTTCCCTCCACTTCTGAGAAAGCTGCTTGCTTGAAAGTGCCAGGAACCCCTCTGGAGCCTGGGGGAAC  
AAGATCCGACCCATCAAGGCTTCTGTCACTCAGGTGTTCCATGTACCCCTGGAGGAGAGAAAATACAAGGAT  
ATGAACCAGTTTGGAGAAGGTGAACAAGCAAAAATCTGCCTTGAGATCATGCAGAGAACTGGTGCTCACTTGGAG  
CTGTCTTTGGCCAAAGACCAAGGCCTCTCCATCATGGTGTGAGGAAAGCTGGATGCTGTCAAGAGCTCGGAAG  
GACATTGTTGCTAGACTGCAGACTCAGGCCTCAGCAACTGTTGCCATTCCCAAAGAACACCATCGCTTTGTTATT  
GGCAAAAATGGAGAGAACTGCAAGACTTGGAGCTAAAACTGCAACCAAAAATCCAGATCCCACGCCAGATGAC  
CCCAGCAATCAGATCAAGATCACTGGCACCAAGAGGGCATCGAGAAAGCTCGCCATGAAGTCTTACTCATCTCT  
GCCGAGCAGGACAAACGTGCTGTGGAGAGGCTAGAAGTAGAAAAGGCATTCCACCCCTTCATCGCTGGGCCGTAT  
AATAGACTGGTTGGCGAGATCATGCAGGAGACAGGCACGCGCATCAACATCCCCCACCAGCGTGAACCGGACA  
GAGATTGTCTTCACTGGAGAGAAGGAACAGTTGGCTCAGGCTGTGGCTCGCATCAAGAAGATTTATGAGGAGAAG  
AAAAAGAAGACTACAACCATTGCAAGTGAAGAAATCCCAACACAAGTATGTCATTGGGCCCAAGGGCAAT  
TCATTGCAGGAGATCCTTGAGAGAACTGGAGTTTCCGTTGAGATCCACCCCTCAGACAGCATCTCTGAGACTGTA  
ATACTTCGAGGCGAACCTGAAAAGTTAGGTGAGGCGTTGACTGAAGTCTATGCCAAGGCCAATAGCTTCACCGTC  
TCCTCTGTGCGCGCCCTTCTGGCTTACCCTTTCATCATTGGCAAGAAAGGGCAGAACCTGGCCAAAATCACT  
CAGCAGATGCCAAAGGTTACATCGAGTTCACAGAGGGCGAAGACAAGATCACCCCTGGAGGGCCCTACAGAGGAT  
GTCAATGTGGCCAGGAACAGATAGAAGGCATGGTCAAAGATTTGATTAACCGGATGGACTATGTGGAGATCAAC  
ATCGACCACAAGTTCCACAGGCACCTCATTGGGAAGAGCGGTGCCAACATAAACAGAATCAAAGACCAGTACAAG  
GTGTCCGTGCGCATCCCTCCTGACAGTGAGAAGAGCAATTTGATCCGCATCGAGGGGGACCCACAGGGCGTGCAG  
CAGGCCAAGCGAGAGCTGCTGGAGCTTGCATCTCGCATGGAAGTGAAGCGTACCAAGGATCTAATCATTGAGCAA  
AGATTTTCATCGACAATCATTGGGCAGAAGGGTGAACGGATCCGTGAAATTCGTGACAAATTCAGAGGTCATC  
ATTAATTTCCAGACCCAGCACAAAAAGTGACATTGTCCAGCTCAGAGGACCTAAGAATGAGGTGGAAAAATGC  
ACAAAATACATGCAGAAGATGGTGGCAGATCTGGTGGAAAATAGCTATTCAATTTCTGTTCCGATCTTCAAACAG  
TTTCACAAGAATATCATTGGGAAAGGAGGCGCAACATTAAAAAGATTCTGTGAAGAAAGCAACACCAAAAATCGAC  
CTTCCAGCAGAGAATAGCAATTCAGAGACCATTCATCATCAGGCAAGCGAGCCAAGTGCAGAGCTGCCCGGAGC  
AGGATTCTGTCTATTTCAGAAAGACCTGGCCAACATAGCCGAGGTAGAGGTCTCCATCCCTGCCAAGCTGCACAAC  
TCCCTCATTGGCACCAAGGGCCGTCTGATCCGCTCCATCATGGAGGAGTGCAGGGGGTCCACATTCACTTTCCC  
GTGGAAGGTTTCAGGAAGCGACACCGTTGTTATCAGGGGCCCTTCTCGGATGTGGAGAAGGCCAAGAAGCAGCTC  
CTGCATCTGGCGGAGGAGAAGCAAAACCAAGAGTTTCACTGTTGACATCCGCGCCAAGCCAGAATACCACAAATTC  
CTCATCGCAAGGGGGGCGGCAAAATTCGCAAGGTGCGCGACAGCACTGGAGCACGTGTCACTTCCCTGCGGCT  
GAGGACAAGGACCAGGACCTGATCACCATCATTGGAAGGAGGACGCCGTCCGAGAGGCACAGAAGGAGCTGGAG  
GCCTTGATCCAAAACCTGGATAATGTGGTGAAGACTCCATGCTGGTGGACCCCAAGCACCACCGCCACTTCGTC  
ATCCGCAGAGGCCAGGTCTTGCGGGAGATTGCTGAAGAGTATGGCGGGGTGATGGTCAGCTTCCCACGCTCTGGC  
ACACAGAGCGACAAAGTCACCCCTCAAGGGCGCCAAGGACTGTGTGGAGGCAGCCAAGAAACGCATTTCAGGAGATC  
ATTGAGGACCTGGAAGCTCAGGTGACATTAGAATGTGCTATACCCAGAAATTCCATCGATCTGTATGGGCCCC  
AAAGGTTCCAGAATCCAGCAGATTACTCGGGATTTAGTGTTCAAATTAAATTCAGACAGAGAGGAGAACGCA  
GTTACAGTACAGAGCCAGTTGTCCAGGAGAATGGGGACGAAGCTGGGGAGGGGAGAGAGGCTAAAGATTGTGAC  
CCCGGCTCTCAAGGAGGTGTGACATCATCATCTCTGGCCGAAAGAAAAGTGTGAGGCTGCCAAGGAAGCT  
CTGGAGGCATTGGTTCTGTACCATTTGAAGTAGAGGTGCCCTTTGACCTTCACCGTTACGTTATTGGGCAGAAA  
GGAAGTGGGATCCGCAAGATGATGGATGAGTTTGAAGTGAACATACATGTCCCGGCACCTGAGCTGCAGTCTGAC  
ATCATCGCCATCACGGGCCTCGCTGCAAAATTTGACCGGGCCAAGGCTGGACTGCTGGAGCGTGTGAAGGAGCTA  
CAGGCCGAGCAGGAGGACCGGGCTTTAAGGAGTTTTAAGCTGAGTGTCACTGTAGACCCCAATACCATCCCAAG  
ATTATCGGGAGAAAAGGGGCGAGTAATTACCCAAATCCGGTTGGAGCATGACGTGAACATCCAGTTTCTTGATAAG  
GACGATGGGAACCAGCCCCAGGACCAAAATTACCATCACAGGGTACGAAAAGAACACAGAAGCTGCCAGGGATGCT  
ATACTGAGAATTGTGGGTGAACCTTGAGCAGATGGTTTCTGAGGACGTCCCGCTGGACCACCGCTTCACGCCCCG  
ATCATTGGTGCCCGCGCAAGCCATTGCAAAATCATGGACGAATTCAGGTGGACATTGCTTCCCACAGAGC

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**FIGURE 1032B**

GGAGCCCCAGACCCCAACTGCGTCACTGTGACGGGGCTCCCAGAGAATGTGGAGGAAGCCATCGACCACATCCTC  
AATCTGGAGGAGGAATACCTAGCTGACGTGGTGGACAGTGAGGCGCTGCAGGTATACATGAAACCCCCAGCACAC  
GAAGAGGCCAAGGCACCTTCCAGAGGCTTTGTGGTGCGGGACGCACCCTGGACCGCCAGCAGCAGTGAGAAGGCT  
CCTGACATGAGCAGCTCTGAGGAATTTCCCAGCTTTGGGGCTCAGGTGGCTCCCAAGACCCTCCCTTGGGGCCCC  
AAACGATTAATGATCAAAAAGAACAGAACCCCTCTCCAGCCTGCTGACCCAAACCAACCACACAATGGTTTGTCTC  
AATCTGACCCAGCGGCTGGACCCTCCGTAAATTGTTGACGCTCTTCCCCCTTCCCGAGGTCCCGCAGGGAGCCTA  
GCGCCTGGCTGTGTGTGCGGCCGCTCCTCCAGGCCTGGCCGTGCCCGCTCAGGACCTGCTCCACTGTTTAACT  
AAACCAAGGTCATGAGCATTTCGTGCTAAGATAACAGACTCCAGCTCCTGGTCCACCCGGCATGTCAGTCAGCACT  
CTGGCCTTCATCACGAGAGCTCCGCAGCCGTGGCTAGGATTCCACTTCCTGTGTCATGACCTCAGGAAATAAACG  
TCCTTGACTTTATAAAAGCC

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**FIGURE 1033**

MSSVAVLTQESFAEHRSGLVPPQIKVATLNSEESDPPTYKD A F P P L P E K A A C L E S A Q E P A G A W G N K I R P I K A S V  
ITQVFHVPLEERKYKDMNQFGEGEQAKICLEIMQRTGAHLELSLAKDQGLSIMVSGKLD A V M K A R K D I V A R L Q T Q  
ASATVAIPKEHHRFVIGKNGEKLQDLELKTATKIQIPRPDDPSNQIKITGTKEGIEKARHEVLLISAEQDKRAVE  
RLEVEKAFHPFIAGPYNRLVGEIMQETGTRINIPPPSVNRTEIVFTGEKEQLAQAVARIKKIYEEKKKKTTTIAV  
EVKKSQHKYVIGPKGNSLQEILERTGVSVEIPPSDSISETVILRGEPEKLGQALTEVYAKANSFTVSSVAAPSWL  
HRFIIIGKKGQNLAKITQQMPKVHIEFTEGEDKITLEGPTEDVNVAQEQIEGMVKDLINRMDYVEINIDHKFHRHL  
IGKSGANINRIKDQYKVSVRIPPDSEKSNLIRIEGDPQGVQQA K R E L L E L A S R M E N E R T K D L I I E Q R F H R T I I G Q  
KGERIREIRDKFPEVIINFPDPAQKSDIVQLRGPKNVEVEKCTKYMQKMVADLVENSYSISVPIFKQFHKNIIGKG  
GANIKKIREESNTKIDLPAENSNSSETIIITGKRANCEAARSRI L S I Q K D L A N I A E V E V S I P A K L H N S L I G T K G R L  
IRSIMEECGGVHIHFVVEGSGSDTVVIRGPSSDVEKAKKQLLHLAEKQTKSFTVDIRAKPEYHKFLIGKGGGKI  
RKVRDSTGARVIFPAAEDKDQDLITIIIGKEDAVREAQKELEALIQNLDNVVEDSMLVDPKHHRHFVIRRGQVLRE  
IAEYGGVMVSFPRSGTQSDKVT L K G A K D C V E A A K K R I Q E I I E D L E A Q V T L E C A I P Q K F H R S V M G P K G S R I Q Q I T  
RDFSVOIKFPDREENAVHSTEPVVQENGDEAGEGREAKDCDPGSPRRCDIIIIISGRKEKCEAAKEALEALVPVTI  
EVEVPFDLHRYVIGQKSGGIRKMMDEFVNIHVPAPELQSDIIAITGLAANLDRAKAGLLERVKELQAEQEDRAL  
RSFKLSVTVDPKYHPKIIGRKGAVITQIRLEHDVNIQFPDKDDGNQPDQITITGYEKNTEAARDAILRIVGELE  
QMVSEDVPLDHRVHARIIGARGKAIRKIMDEFKVDIRFPQSGAPDPNCVTVTGLPENVEEAIDHILNLEEEYLAD  
VVDSEALQVYMKPPAHEEAKAPSRGFVVRDAPWTASSEKAPDMSSSEEFPSFGAQVAPKTLPGWPKR

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**FIGURE 1034**

CCCAGCTCGGTGCTGCCGCCATCTTCTTGGAGGACAGGAGGAGAGGCGAAGGCTCCCCCTCCCCGTGATCGCTCC  
GCACTCCCGCCACCACCTGCCCTCCCGCGACCGCCTCTCTCCTCCTCAGTGGGCACTTGTCTCCTTCTAACAAAC  
GGCCTTCCCCCACTCCAGTTACCCACCGCAAGGCGAAGATTCTCATTACCTGTTCCACTCTTATAAGCATAAGA  
AAACCGAGCTCATAAGACGAAGCTTCAAAAAAGATGTCTAAGCAACAGCCAACCTCAGTTTATAAATCCAGAAACA  
CCTGGCTATGTTGGATTGTCAAACCTCCCCAATCAAGTTCACCGAAAATCAGTGAAAAAAGGTTTTGAGTTCACA  
CTGATGGTGGTGGTGAATCAGGTCTAGGAAAAATCGACTCTCATAAACAGCCTATTCTTAAGTATCTGTACCCA  
GAAAGAGTCATACCTGGAGCAGCAGAAAAAATTGAAAGAACTGTCCAGATTGAGGCTTCAACTGTTGAAATTGAA  
GAGCGAGGGGTCAAGCTACGCCTGACAGTGGTAGATACCCCTGGCTATGGTGACGCTATCAACTGCAGAGATTGT  
TTTAAGACAATTATCTCCTATATTGATGAGCAATTTGAGAGGTACCTGCATGACGAGAGCGGCTTGAACAGGCGG  
CACATCATTGATAATAGGGTGCATTGTTGCTTTTACTTTTATTTACCTTTTGGACATGGACTTAAGCCCTTAGAT  
GTGGCGTTTATGAAGGCAATACACAACAAGGTGAATATTGTGCCTGTCATTGCAAAAGCTGACACTCTCACCCTG  
AAGGAACGGGAGCGGCTGAAGAAAAGGATTCTGGATGAAATTGAAGAACATAACATCAAAATCTATCACTTACCT  
GATGCAGAATCAGATGAAGATGAAGATTTTAAAGAGCAGACTAGACTTCTCAAGGCTAGCATCCCATTTCTCTGTG  
GTTGGATCCAATCAGTTGATTGAAGCCAAAGGAAAGAAGGTGAGAGGCGCCTCTACCCCTGGGGTGTGTGGAA  
GTGGAGAACCAGAGCACAATGACTTCTGAAGCTGAGAACCATGCTCATCACCCACATGCAGGATCTCCAGGAG  
GTGACCCAGGACCTTCATTATGAAAACCTCCGTTCTGAGAGACTCAAGAGAGGCGGCAGGAAAGTGAGAAATGAG  
GACATGAATAAAGACCAGATCTTGTGAAAAAGAAGCTGAGCTCCGCCGCATGCAAGAGATGATTGCAAGGATG  
CAGGCGCAGATGCAGATGCAGATGCAGGGCGGGGATGGCGATGGCGGGGCTCTCGGGCACCACGTGTAAAGGTGAT  
GTGCACATATCAAGAAGTCAGAGAAAAACACTTTCCTGGATAAAAAAGAAAACATTCCAGATGATGATCCAGCTG  
TGTGTTTTCAATCCTTGGGAGGGTGCCATCCACATTTTAAACAGTACCTGTGCCTGAGAATTTAATTTTTTAAAGA  
CTTTGATGTGTTTTTGTATGAAGTACTTTTAAACGTATGTATTTTATTGCTGTGTACACTCTGTGTTTTGTGAGG  
TGAATGTCTTCTTTTCTTCTCCTAACCATAATGTTAGAATTGATTTCCAAGAATCGGCATGTATACTTAAT  
ACTGAATTTCTTTGATTTAACTGACTTAACAACCTGACTAACCATTGATGAGCACTCCTGATTTTTATCTAGAACA  
TTCAGATTTACCATAATGTTTCTTAGTGGTAGAGGTGTGTGCCTAGTGATGTAGAAAGATACACTGACTTGGTGC  
AAGGCCATCTGCTTACCACATCACACCCTTGGAGATCTTTGCTTCTTGTGTTTTATGTTTGTACACAACACCTA  
AAACCAGTTTTGCTGTCTATAATTCTATACTGTTGATTCTGCTGCGATTTTATCTGTTAACCATAAAACATAAT  
AGAATTTCTAATGAGATATATCTTTATACTTAAACAGCTTTTTTATAGAGGTGAGTTTTTAAAGAAGTCTCTTAAT  
CTGATGCTAGGTTGTTTTTAAACCCTATGCAAAAGAACTCACCACAAGCCACCTTTTGTAGTGTCTCCACTAA  
TACTGGTTATCCTGTGCTACAGAGAAAAATCAAAGCAGTCATAAGCTCCAGTTTTCCGTATTGCAAAATAAGACTCT  
TACCTACAAAATGAGATTCCAGTGAACATAATTTGGTTTTTACTCAACCAATTAATAAATTTTTTAAAGGAAAAAT  
AGCAGTTGGTCTATTTCAGAAATCAAACCTTTTTATATTTTATACTGCACCTTTAGTGTATTTTCTGTCACTGTAGGT  
ATAGAAGATCTGCCTCCCTGTGGAATTTGGGGTCTGTTGGTGGGCTTGCCCTGAAGCCTGGCTTGGGTGAAA  
AGTGTTCGCCCTAAGGCCTTGGTGCCCTGAACCTCTGATGCCTACCGGGTCTCCTGATTTGAGTTTCTTTA  
AATACTCCCTTTTTGAGTAATTTTCTGATGGGAGGAAAGTAGCAGTCATCATCTTTTGTGTGCAGGCTGTCTCA  
TTTATTTTTAGCCATTGTGCTTTTCAATTTTGTGTAATATAAACCCTGTGTATGTCAAAGTGAAAGACATTT  
CAAATCTGTAGCATAGGCTAGTGGGCAGGTCCGCACAGTCGAAGCCACACCTGGTCTGTTTTCTGTGCACTGTAG  
CCTTAGTGTACCTTTCTTCTTGTGCTCCTTATGGTACACTCCAGCGTTGCCTTTTTTATCATTTCTACTGAA  
GTTGGGAAATTCAACCCAGAAATTGACAGATGAAAGGAGACAATGGTTGTGTAGGGAGATGGAGAAAATGCTTA  
ATCTGAGGATGAGACAGGGTTTTTTCATTTTTGTGGGGGCTAGAAAAACATAAAATGAGGCAGTTAAATAATAA  
TAGTTAATGAAGGTGTGCTACAGAAAATAATCTGGTGTCTTGCTAACTTTGCCCTTCACTGTTGCTTAATTGTG  
AACAGCCAAAAGCTATATGTTATGGCTTATTGTGTGAAGGTAACATAAGAAGTGGTGTTCATGACTTCAGAGTAC  
ATCCATGCGGAGTCCATTATTTGAGTTTGACATTTAATAACTTTGCTGGAAAATCTGTAAAAAAGAAAAACAAGT  
TTGCTAGTACTAAGCCCGCATATGTGAGTGAAAGTACTTCAGGCACGCTGCCTCCTGGTAACAGCTATGCAGG  
GAGGGAGGACCCACACTGCTACACTTCTGATCCCTTTGGTTTTACTACCCAAATCTAAATAGATACTTTTGATA  
ATAGATAACTGCTCTTTTACTAAGACATAGTCTCTACCTATAGAAATGTATTTTGAAAACACTTATTTTACACAG  
CAATTTTGTATCCATTTAACTAACCTTTTATCAATAAAGCACTATTGTTTAGATATT

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**FIGURE 1035**

MSKQQPTQFINPETPGYVGFANLPNQVHRKSVKKGFEFTLMVVGESGLGKSTLINSFLTDLYPERVIPGAAEKI  
ERTVQIEASTVEIEERGVLRLTVVDTPGYGDAINCRDCFKTII SYIDEQFERYLHDESGLNRRHIIDNRVHCCF  
YFISPFHGHLKPLDVAFMKAIHNKVNIVPVIKADTLTLKERERLKKRILDEIEEHNIKIYHLPDAESDEDEDFK  
EQTRLLKASIPFSVVGSNQLIEAKGKKVRGRLYPWGVVEVENPEHNDFLKLRTMLITHMQDLQEVTDLHYENFR  
SERLKRGGGRKVENEDMNKDQILLEKEAELRRMQEMIARMQAQMOMQMQGGDGDGGALGHV

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**FIGURE 1036**

CACCGAGCGCCCCTGGTGTCCCTCGCAGTGGACTGACGCCGAGGGGCGAGCTAGCCGGCTCCGCGCCTCTCCGC  
GGGATCCAGACGCCCTCCTGGGGCTGCTGGCGGAGGGTCTGAGGCGGCGCGGCCATGGCTCACCTCCGGGGATTG  
CCAACCAGCACTCTCGAGTGGACCCTGAGGAGCTCTTCACCAAGCTCGACCGCATTGGCAAGGGCTCGTTTGGGG  
AGGTCTACAAGGGCATCGATAACCACACAAAGGAGGTGGTGGCCATCAAGATCATCGACCTGGAGGAGGCCGAGG  
ATGAGATCGAGGACATCCAGCAGGAGATCACTGTCTCAGTCAGTGCACAGCCCCCTACATCACCCGCTACTTTG  
GCTCTACCTAAAGAGCACCAAGCTATGGATCATCATGGAGTACCTGGGCGGCGGCTCAGCACTGGACTTGCTTA  
AACCAGGTCCCCCTGGAGGAGACATACATTGCCACGATCCTGCGGGAGATTCTGAAGGGCCTGGATTATCTGCACT  
CCGAACGCAAGATCCACCGAGACATCAAAGCTGCCAACGTGCTACTCTCGGAGCAGGGTGACGTGAAGCTGGCGG  
ACTTTGGGGTAGCAGGGCAGCTCACAGACACGCAGATTAAGAGGAACACATTCTGTGGGCACCCCTTCTGGATGG  
CACCTGAGGTTCATCAAGCAGTCGGCCTACGACTTCAAGGCTGACATCTGGTCCCTGGGGATCACAGCCATCGAGC  
TGGCCAAGGGGGAGCCTCCAACTCTGACCTCCACCCCATGCGCGTCTGTTCCTGATTCCCAAGAACAGCCCAC  
CCACACTGGAGGGCCAGCACAGCAAGCCCTTCAAGGAGTTCGTGGAGGCCTGCCTCAACAAAGACCCCCGATTCC  
GGCCCACGGCCAAGGAGCTCCTGAAGCACAAAGTTCATCACACGCTACACCAAGAAGACCTCCTTCCTCACGGAGC  
TCATCGACCGCTATAAGCGCTGGAAGTCAGAGGGGCATGGCGAGGAGTCCAGCTCTGAGGACTCTGACATTGATG  
GCGAGGCGGAGGACGGGGAGCAGGGCCCCATCTGGACGTTCCCCCTACCATCCGGCCGAGTCCACACAGCAAGC  
TTCACAAGGGGACGGCCCTGCACAGTTCACAGAAGCCTGCGGAGCCCGTCAAGAGGCAGCCGAGGTCCCAGTGCC  
TGTCACGCTGGTCCGGCCCGTCTTCGGAGAGCTCAAAGAGAAGCACAAAGCAGAGCGGCGGGAGCGTGGGTGCGC  
TGGAGGAGCTGGAGAACGCCTTCAGCCTGGCCGAGGAGTCTGCCCCGGCATCTCAGACAAGCTGATGGTGCACC  
TGGTGGAGCGAGTGCAGAGGTTTTACACAACAGAAACCACCTGACATCCACCCGCTGAAGCGCACTGCTGTTCA  
GATAGGGGACGGAAGGTTCGTTTGTGTTTGTCTGAGCTCCATAAGAACTGTGCTGACTTGGAAGGTGCCCTGTGC  
TATGTCTGCTGCCTGCAGGGACACGTCGGATCCCCTGGGCCTCACATGCCAGGTACCAGGTACCCTCTCCTTCCA  
CCCCCTGCAGTGTGCTGTTGTGCACGTCAGGGACGCTGTTCTCTATGCCCACTGCCCTCCTCCCTCTCCTGGCCCA  
GCAGTATTGCTCACGGGGGCTCCAGCCGCCGGCGTGGCCCTCATGAGCTACGCCTGGGTCTTCTGCAGACTCATG  
CAGCCCTATGGCCGCTCAGACCAAGGCGCAGAGCAACTATCAGGGCAGCTCTGCCTCCTCCTCCCATGAGGTGGG  
GAGAGGCAACAGGGCAGCCCCAGAGGAGTGTCCTGGCCGCTGTCTCCCGGGGCCCCATGATGGCCATAGATTG  
CCTTGTTGGTGTGGATCAGGTACTGTGTCTGCTCATAAGTACTTGTGTCTATCCAGAATGTTTGTGTTTTTAAGAA  
AATTGAATTACTTGTTTCCTGAAA



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**FIGURE 1037**

GGCACGAGGCCAATCCCATGCCTGGGGGAGAGACAGCGGCTCAGGAGTGGGGGAGCACGGGCCTTCTACACCACA  
TGGGAAGGCTCTGGCATGAGGTTTTCTTTGGGAAGGTTGTTTGGGCCCTGAAGTTCCATCTCCGAGAGTGGTG  
TGCAGGGCAGGCCAGGGCCCATGCTGGCTGCAGTCTTTGTGGCTGCCTGCCTGGGCCAGCCTGTTTGGGAGCTGG  
GACTGTGGGCTCGCCTTTTTCGTACCTGGGCTCAGGTGCGGTGTGGCCACCGCCACCCTCATCCCCTGCCTGGGAG  
GCTCTCCCAGGGGCTGATGGGGGGGTCTGTGAGGGAGAATCAGGGCTCGGGAAGCCACGCCTGGGAAGGCAGGA  
CACAGGACACAGCAGCTTTCTTTGAAATCTCCCAGGTGAGGATTCACATCCCAAATAAAATTCAGAAGCCAGG  
TGGCCTGTGCTCCCCATGGGTGACCTCTGGAGGCAGTGGACCAAGATGCAGCAAGGAGAGGATGCAGAACAGCTT  
CTTGACAGAAGCACCTGCTCCGGCATCCAGCGCTGCCTGGAGGCAGGAAGGAGAGGCAGGGCAGGACACGCTGGTC  
TGAGATGAGGGGAGCCCCATGGGCCCCAGGCAGGCTAGAGGAGGCACAGGCCCTGCCACGGCCAACTCAGGTCA  
GCCAGCCTGAGGCTGTGGCCTCCAAAGGGTCTGGGCGCACCCCCAGGTGCGAGGTGTCTGAGGCCAGCCAACT  
GCAGAGCACTCGCGGCGTGGGTGGGCTGAGTGGAGGTGCCTGGGAGCTGCCTAAATTCAGAAGCCTCCACTGCCA  
TGGAGACTGCCTGGCTGTGTCTCTCAGCCAGGTGCCGTGTTGGCCTTGGCTAGGACCCAGAGCCACACTGCAGC  
CTCCGCCGACTCCCTCCTTCCGGGCCTGCTCTAGTGAGGAGTGCCTAAGCCAGGACCCAGAACTCAGAGTTGAT  
GGTGAGAGGAGGCCGCTGAGTCAGGACACCTGGCTTCTTGAAAAGTTCGCTCTGCCAGAAACCACCTAGGGACC  
ACGTTAGCTGCCTTCCTTGAGCTCCCCAGGAGTCCGTTTCCACATCTGTGAGGTGGAGGGCTGGTGTGGAGGTGC  
TCATGGGGTGCGGTGCTTGGGAGACAGCCAGGCCAGGGTGGCTGCTGCTTCCTGCTAAGTGGGGGAGGTGAGAC  
AGATCTGGAAAGCCGTCTCCCTCAGATGGTTTCATTTAATGCTTTATACTGCCGAGTCTGGGGGCTTGTTTTGGT  
TTGGGGGCAGCCATCCTCCACCAGAAAGGGGGAGCTCCTTCCGCTGCGGCTCCAGATAGATGGGGATGCCGGGCT  
CCAGGCCGACCAGCACTTGGGATCTGATGGGACACGGCCAGTGCCTAGGGGTGCCAAGTCCAAGGCCTCCCACTG  
GGAGTCATCGCTGAGAAGATGCCAATGTTTCATCCACCGGCTGCACAGGCACAACTCCCCACCCAGGACGGCT  
GTGATGAGGTTGGCCCTCCCTGTCAACCCTGGTCCCTGGAGTCCCCAGCACCTGGGGCCCTGGTGGGGCTGATGTC  
ACAGGTGTTTACTGTGCTGCTGCACTGGTCCATATGCCAGCCTCACCCATGTGGGGACCACGGAAGGCACACTCCC  
TTACCCCCGGTGCCGGGCCGTGCGGTCCCCCAGACGGACAGCAGCTGTGGCGACCTGCGTTTCTCCCTGGGCCTG  
TGCTTCCTGTAGTTAGTCCGTCCCCTGGTTCCCCCTGTGGCTCAGAGGCCGCTCCCTGGCTTGTACATATGTGAT  
TGCTGTGGGCACACCCACAGACCCCATGTATAGCTGCCGTCCCGACGTACGACGCCTGTCCCGATGTCTTACAC  
CCGAGTGTTAGCCCTAGGCTCCTGTACTGTGCGTGCACTTGAGGCTCTGTCCAATTAAGAAATAAATGTGGCTCT  
TACTCAACACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1038**

MRWPSLSTLVPGVPSTWGPGGADVTGVYCAAALVLCQPHPCGDHGRHTPLPPVPGRAVPQTDSSCGDLRFSLGLC  
FL

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**FIGURE 1039**

ATGGAGGAACGGCGGGCTCCGAGCCGCGCCCCGGAGTCCGCGAACTTCCGAGCGGGCGCCCCCTGAAGGACCTG  
ACCCGCTTCGTGGATTTCAACATCAAAGGGCGCGACGTGATCGTGTTCCCTCCACATCCAGAAGACGGGGGGCACC  
ACTTTCGGCCGGCACCTGGTGAAGAACATCCGGCTGGAGCAGCCTTGTTAGCTGCAAAGCGGGTCAGAAGAAGTGC  
ACCTGCCACCGGCCTGGCAAGAAGGAGACGTGGCTCTTCTCCGCTTCTCCACCGGCTGGAGCTGCGGGCTGCAC  
GCCGACTGGACGGAGCTCACCAACTGCGTGCCGGCCATCATGGAGAAGAAGGACTGTCCCCGCAACCACAGCCAC  
ACCAGTCCTGACCCAGAGCGACCCCGCGCTCCCTGCCCCTGCCGATGGTTTCCTGGCGTCTTCAGCGGTTGGCGC  
CGTGGCTTTGGGGAGGGATGA

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**FIGURE 1040**

ATGCTAACTAGTTACGCGACCCCGAGCGGTCGGCGTCCCCCAACTTCTTAGAGGGACAAGTGGCGTTCAGCCAC  
CCGAGATTGAGCAATAACAGGTCTGTGATGCCCTTAGATGTCCGGGGCTGCACGCGCGCTACACTGACTGGCTCA  
GCGTGTGCCTACCCTACGCCGGCAGGCGCGGGTAACCCGTTGAACCCCATTCGTGATGGGGATCGGGGATTGCAA  
TTATTCCCATGAACGAGGAATTCCCAGTAAGTGCGGGTCATAAGCTTGCGTTGATTAAAGTCCCTGCCCTTTGTA  
CACACGCCCCGTCGCTACTACCGATTGGATGGTTTAGTGAGGCCCTCGGATCGGCCCCGCCGGGGTCGGCCCCACG  
GCCCTGGCGGAGCGCTGA

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**FIGURE 1041**

GCGGCAACAGCGGGGCCGATGTGTAGTTGGTGACTGCCTCTCCAGATGCTGAGGTGCCTGTATCATTGGCACAGG  
CCAGTGCTGAACCGTAGGTGGAGTAGGCTGTGCCTTCGGAAGCAGTATCTATTCACAATGAAGTTGCAGTCTCCC  
GAATTCCAGTCACTTTTCACAGAAGGACTGAAGAGTCTGACAGAATTATTTGTCAAAGAGAATCACGAATTAAGA  
ATAGCAGGAGGAGCAGTGAGGGATTTATTAAATGGAGTAAAGCCTCAGGATATAGATTTTGCCACCACTGCTACC  
CCTACTCAAATGAAGGAGATGTTTCAGTCGGCTGGGATTCGGATGATAAACACAGAGGAGAAAAGCACGGAACA  
ATTACTGCCAGGCTTCATGAAGAAAATTTTGAGATTACTACACTACGGATTGATGTCACCACTGATGGAAGACAT  
GCTGAGGTAGAATTTACAACCTGACTGGCAGAAAGATGCGGAACGCAGAGATCTCACTATAAAATCTATGTTTTTA  
GGTTTTGATGGCACTTTATTTGACTACTTTAATGGTTATGAAGATTTAAAAAATAAGAAAGTTAGATTTGTTGGA  
CATGCTAAACAGAGAATACAAGAGGATTATCTTAGAATTTTAAGATACTTCAGGTTTTATGGGAGAATTGTAGAC  
AAACCTGGTGACCATGATCCTGAGACTTTGGAAGCAATTGCAGAAAATGCAAAAGGCTTGGCTGGAATATCAGGA  
GAAAGGATTTGGGTGGAAGTGAAGAAAATTTCTGTTGGTAACCATGTAAATCATTGATTACCTTATCTATGAT  
CTTGATGTGGCTCCTTATATAGGTTTACCTGCTAATGCAAGTTTAGAAGAATTTGACAAAGTCAGTAAAAATGTT  
GATGGTTTTTACCAAAGCCAGTGACTCTTTTGGCCTCATTATTCAAAGTACAAGATGATGTCACAAAATTGGAT  
TTGAGGTTGAAGATCGCAAAAGAGGAGAAAAACCTTGGCTTATTTATAGTTAAAAATAGGAAAGATTTAATTAAA  
GCAACAGATAGTTCAGACCCATTGAAACCCTATCAAGACTTCATTATAGATTCTAGGGAACCTGATGCAACTACT  
CGTGTATGTGAAGTACTGAAGTACCAAGGAGAGCACTGTCTCCTAAAGGAAATGCAGCAGTGGTCCATTCCTCCA  
TTTCCTGTAAGTGGCCATGACATCAGAAAAGTGGGCATTTCTTCAGGAAAAGAAATTGGGGCTCTATTACAACAG  
TTGCGAGAACAGTGGAAGAAAAAGTGGTTACCAAATGGAAAAAGATGAACCTTCTGAGTTACATAAAGAAGACCTAA  
AACTGATGGCTACTAAAAAGCAGAGCATT

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**FIGURE 1042**

[illegible]

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**FIGURE 1043**

GCGGCTTCCGGCGGCGTGACCTGACCGCAAGAGGCCAATGGAGTGTGGGAGCTGAAAGGGTCTTCGCTGGCGGCC  
GGTAACTGGCGGCGGTTGGGAACGGCCGAGTGTGGCTCTTCTGGTGTTCAGCTTGGGGAGAGAGGGGTGGCCTT  
CCTCTTGCAGTTGAGGCCGGCGCCGAGCCGACTTCAGGCGGATCTCGTGGCGGAGCCCATCTTGCTCCCTCTCC  
CAGGCCTTTACCCGCTCCCTAGGATTCCCGGGCCCTGTAGGTGGGAGTTGGGAGACGACAGTACTGCTTTTAAAG  
AGACAGTGTTAGGGATCTTGAAGCACAGCCAACATGTTGTGACATTGAAGAAGCCACTAACCAACTCCTAGATGT  
GAACCTTCATGAGAACCAGAAGTCTGTACAAGTGACAGAAAGTGACCTCGGAAGTGAATCTGAGCTTCTAGTCAC  
TATTGGAGCCACTGTACCTACTGGCTTTGAGCAAACAGCTGCAGATGAAGTCAGAGAGAACTTGGGTCATCATG  
CAAAATCAGCAGAGACCGTGGCAAGATATATTTTGTCAATTCAGTGGAAAGTCTGGCACAGGTTCAATTGTCTGAG  
ATCAGTTGATAACTTATTTGTGGTGGTTTCAGGAGTTTCAAGATTACCAGTTCAAACAAACAAAGGAAGAAGTTCT  
AAAGGATTTTGAAGACTTGGCTGGAAAACCTCCCATGGTCAAACCCCTTAAAGTGTGGAAAATTAATGCCAGTTT  
TAAAAAGAAAAAGCAAAGCGCAAAAAGATAAATCAGAATTCAAGTAAAGAGAAGATTAATAATGGACAAGAAGT  
CAAAATCGATCAGAGAAATGTTAAAAAAGAGTTCACTAGCCATGCTTTAGATTCTCATATCTTAGATTATTATGA  
AAATCCAGCCATCAAAGAGGATGTATCAACATTAATAGGTGATGATTTGGCATCTTGCAAAGATGAGACTGATGA  
AAGCTCAAAAGAAGAACTGAGCCTCAAGTGCTGAAGTTTAGAGTCACATGCAACAGGGCAGGAGAGAAACATTG  
CTTTACCTCAAATGAGGCTGCAAGAGATTTTGGGGGTGCTGTTCAAGATTATTTTAAGTGAAGGCCGACATGAC  
CAACTTTGATGTGGAGGTTCTTTTGAACATCCATGATAATGAAGTCATTGTGGGCATTGCATTGACTGAAGAGAG  
TCTCCACCGAAGAAATATAACACATTTTGGACCTACAACCTCTTAGATCAACTCTTGCCATAGGGATGCTCAGGCT  
CTGTGATCCTCTACCTTATGATATAATAGTCGATCCAATGTGTGGAAGTGGGCAATACCAATAGAGGGGGCCAC  
TGAATGGTCTGACTGTTTCCATATTGCTGGTGATAATAATCCACTGGCTGTGAATAGAGCAGCAAATAACATTGC  
ATCTTTATTGACCAAGAGCCAAATTAAGAAGGCAAACCTCCTGGGGCTTGCCCATAGATGCTGTTTCAAGTGGGA  
TATCTGCAATCTGCCGTTGAGAACTGGCTCTGTGGATATTATTGTAACAGATTGTCATTTGGAAAAAGGATGGG  
ATCCAAGAAGAGAACTGGAACCTTTATCCAGCTTGCCCTACGCGAGATGAGCCGTGTCTGCACACCTACCACAGG  
CCGAGCTGTACTACTTACTCAAGACACAAAATGCTTTACCAAGGCGTTATCTGGAATGCAACACGTATGGCGAAA  
GGTGGATACAGTCTGGGTGAACGTTGGIGGTCTTCGTGCTGCAGTTTACGTTCTGATACGTACACCTCAAGCTTT  
TGTTTATCCTTCAGAACAAGACGGAGAAAGAGGAACTCTTTGGCAATGCAAAGAATGAAGATGACTAATAGTACT  
TGTAATTTCCCACTGGAATGTTAGCATAAAAGAACTTGGAGAGGAAAAAGTATTAACAAAACCTGCAGTCTG  
CACTCTTTAAACCTGTTTAAAGGCTCTTCATCCTGGTTAGCAAAAGGTGTGAATGTAATGTGATGGAATTTAAAG  
TTTTATGAGACCAGGCACAGTGGCTCACGACTGTAATTCAGCAGTTTAGGAAGCCGAAGTGTGCAGATCACCTG  
AGGTCCGGAGACCAGCCTGGCCAACATGGTGAAACCTGTCTCTACTAGAAATACAAAAATTAGCCAGGTGTGGT  
GGCGGGCGCCTGTAATCCCACTACTCAGGAGGCTGAGGCTAGAGAATCACTTGAACCCAGCAGGCGGAGGTGTC  
GGTGAGTCGAGATCACGCCATTGCACTCCAGCCTGTGCGACAAGAGCGAAACTCTGTCTCAAAAAGATTTTATAA  
GAAAGCAGAGCTTTTCTTGAAGCTCTTTTGAAGTGGTAGCTTAATTAGTATTTTGTGAAAATACTTTAAAGAT  
GCCTAGTGAAAAGCCTACTAAAGTGCTGTGAGATTGGGGTTTGAACATTTTATTTTTCAGGCTTTATGGCCTATT  
TTCCATTGTGTCAAGTGCAAACTACCCTGGCCCAAAGGAAGGGCAGAGAACATAATTACATCTTAGGCCACATT  
TCATTCTTTGCAGCTTTGCTAATCCAGTTGCTCAAGTTCTTTACCTCAACCTGAAGGAATGAAGCATTATTACAT  
TTTGTGAATGGTGTTCAGCCTATAAGACGAAGTCTCACAAGACCTATAGGAAAGTTTACCATCTGCCTAAATATT  
AAAAATATCCATCTGTTATTACATTAATACACAGAATGAAAATAGAGGTCTAGGAATTATCAAAGGTACTGCAAA  
AATACTGTATAGAAGTTATTTGTAAATAGCACATACATTGATAGATGGGGTGTGGGACCAACAAACCAATTA  
AGAAATGTTTTTCTTTCAGTACACTAAGGTGTGTGTTTTTCAAAACC

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**FIGURE 1044**

MCDIEEATNQLLDVNLHENQKSVQVTESDLGSESELLVTIGATVPTGFEQTADEVREKLGSSCKISRDRGKIYF  
VISVESLAQVHCLRSVDNLFVVVQEFQDYQFKQTKEEVLKDFEDLAGKLPWSNPLKVWKINASFKKKKAKRKKIN  
QNSSKEKINNGQEVKIDQRNVKKEFTSHALDSHILDYYENPAIKEDVSTLIGDDLASCKDETDSSKEETEPQVL  
KFRVTCNRAGEKHCFTSNEAARDFGGAVQDYFKWKADMTNFDVEVLLNIHDNEVIVGIALTEESLHRRNITHFGP  
TTLRSTLAYGMLRLCDPLPYDIIIVDPMCGTGAIPIEGATEWSDCFHIAGDNNPLAVNRAANNIASLLTKSQIKEG  
KPSWGLPIDAVQWDICNLPLRTGSVDIIIVTDLPFGKRMGSKKRNNLYPACLREMSRVCTPTTGRAVLLTQDTKC  
FTKALSGMQHVWRKVDTVWVNVGGLRAAVYVLIRTPQAFVHPSEQDGERGTLWQCKE



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**FIGURE 1045**

GCAGGCAGGTGCCATGGGCCCGCTTGAGGCACACTGAGGGGACGCGGGGCTGGGCCATGGCCGGCGCTCGGGCCG  
CCGCCCGCGCTGCCTCGGCGGGGTCTTCGGCCTCTTCAGGCAACCAGCCGCTCAGGAGCTGGGGCTTGGGGAGC  
TGCTGGAGGAGTTCTCCCGGACTCAGTACCGGGCCAAGGATGGCAGCGGGACCGGGCTCTAAGGTTGAGCGCA  
TTGAGAAGAGATGTCTGGAGCTGTTTGGCCGAGACTACTGTTTCAGCGTGATTCCAAACACGAATGGGGATATCT  
GTGGCCACTATCCCCGGCACATCGTGTTCTTGAGTATGAGAGTTCTGAGAAGGAGAAAGACACGTTTGAGAGTA  
CCGTACAGGTGAGCAAGTTGCAAGACCTCATCCACCGCAGCAAGATGGCCCGGTGCAGAGGACGGTTTGTCTGCC  
CAGTAATCCTGTTCAAGGGCAAGCACATTTGCAGGTGCGCCACACTGGCTGGATGGGGAGAGCTGTATGGACGCT  
CAGGCTACAACATATTTTTTCTCAGGGGGTGCAGATGATGCCTGGGCAGATGTGGAGGACGTCACGGAGGAGGACT  
GTGCTCTTCGAAGTGGTGACACGCATCTTTTTGATAAGGTGAGAGGCTATGACATCAAGCTGCTTCGATACCTGT  
CAGTCAAATACATCTGTGACCTGATGGTGGAGAACAAGAAGGTGAAGTTTGGCATGAATGTAACCTCCTCTGAGA  
AGGTGGACAAAGCCCAGCGCTATGCCGACTTCACTCTCCTCTCCATCCCGTATCCAGGCTGTGAATTTTCAAGG  
AATATAAAGATCGGGATTACATGGCAGAAAGGCTCATATTTAACTGGAAGCAGGACTACGTTGATGCCCCATTGA  
GCATCCCCGACTTCTGACTCACTCTCTGAACATTGACTGGAGCCAGTATCAGTGTTGGGATCTGGTGCAACAAA  
CACAAAACCTGAAGCTGCTGCTTTTCTTAGTTAACAGTGATGATGACAGCGGGCTGCTGGTACACTGTATCT  
CAGGCTGGGATCGGACCCCCCTCTTCATCTCCCTCCTGCGCCTTTCCTTGTGGGCTGATGGGCTCATCCACACGT  
CCCTGAAGCCCCTGAGATCCTCTACCTCACTGTGGCCTATGACTGGTTCCTCTTCGGGCACATGTTGGTAGATC  
GGCTCAGCAAAGGGGAGGAGATTTTCTTCTCTGCTTCAATTTTTTGAAGCATATTACCTCCGAGGAGTTCTCTG  
CTCTGAAGACCCAGAGGAGGAAGAGTTTGCCAGCCCGGGATGGAGGCTTACCCTGGAAGACATCTGCATGCTGA  
GACGAAAGGACCGTGGCAGCACACCAGCCTTGGCAGCGACTTCTCCCTGGTCATGGAGAGTTCCCCAGGAGCCA  
CTGGGAGCTTACCTATGAGGCCGTGGAGCTGGTCCCAGCAGGAGCGCCAACTCAGGCAGCTTGGCTTGCAGCCC  
TGAGTGATCGAGAGACTCGGCTGCAGGAGGTGCGCTCAGCCTTCTTGGCTGCGTACAGCAGCACAGTGGGGCTTC  
GGGAGTAGCCCCAGTCCTTCCGGTGCCATCGGGGGCCTGCTGGAGCAATTTGCCCGTGGTGTTGGACTCCGGA  
GCATCAGCAGCAATGCCTTGTGAAGAAGCCAGCCCATGACATTTTCTGCTCCTCTCTCAGCTGAGCCCTTAGCA  
GAGAATCAAAGCCATGCCTGGCCGAAGGGGTACTTCCAGGTGAGGGGAAATTTAGTCCCCCATCTCCATCATGA  
ACATGGCAGCCCCAAAGCTGAGCAAGGCCAAAGACAGGGTTTTCCAACCCCCAGCCTCTTGAAGGTGACCACCA  
CCCCTTCTTGTCACTGTCTCCACCCACCCCATCTTTGCTGGGATTCCCATCAACTCTCAGAACTGTGTGGGGTT  
TCCCTGGGGCCTTGTGGAAGCCATGACTTCACAAAGACCCTACCTGTCAGTTCTTGTTTCTGGGGAGGAGGGATC  
ACCTGCACTGAGAATGAGGCAGTTTGACACAGATCACAAAATAAAATCAAAGTCTTTTTGAAAAAAAAAAAAAAA  
AAA

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**FIGURE 1046**

MARCRGRFVCPVILFKGKHICRSATLAGWGELYGRSGYNYFFSGGADDAWADVEDVTEEDCALRSGDTHLFDKVR  
GYDIKLLRYLSVKYICDLMVENKKVKFGMNVTSSEKVDKAQRYADFTLLSIPYPGCEFFKEYKDRDYMAEGLIFN  
WKQDYVDAPLSIPDFLTHSLNIDWSQYQCWDLVQQTONYLKLLLSLVNSDDDSGLLVHCISGWDRTPLFISLLRL  
SLWADGLIHTSLKPTEILYLTVAYDWFLFGHMLVDRLSKGEEIFFFCFNLKHITSEEFSAKLTQRRKSLPARDG  
GFTLEDICMLRRKDRGSTTSLGSDFSLVMESSPGATGSFTYEAVELVPAGAPTQAAWLAALSDRETRLQEVRSF  
LAAYSSTVGLRAVAPSPSGAIGGLLEQFARGVGLRSISSNAL

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**FIGURE 1047A**

CCGGACTCGAGGTGGCCGATGTGACAGCATGGGGGTGGACTTTGATGTGAAGACTTTCTGCCACAACCTGCGGGC  
GACTAAGCCACCATAACGAGTGCCCGGTGGAGACCTGCCGAAAGGTCTACAAGAGTTACAGTGGTATTGAGTACCA  
CCTGTACCACTATGACCACGACAACCCACCACCCCCACAACAACTCCACTCCGCAAGCACAAGAAAAAGGGGCG  
CCAGTCACGCCCAGCCAACAAGCAGTCACCCAGCCCCCTCAGAGGTCTCACAGTCACCAGGCCGTGAGGTGATGAG  
CTATGCACAGGCCCAGCGCATGGTGGAGGTGGACTTGCATGGCCGCGTCCACCGCATCAGCATCTTTGACAACCT  
GGATGTGGTGTGAGAGGATGAGGAAGCCCCGAGGAGGCCCTGAGAATGGCAGCAACAAGGAGAACACTGAGAC  
ACCAGCTGCTACTCCCAAGTCAGGCAAAACATAAGAACAAGGAGAAGCGCAAGGACTCCAACCATCACCACCACCA  
CAATGTTTCTGCGAGCACCCTCCCAAGCTGCCAGAGGTGGTCTATCGGGAGCTGGAACAGGACACCCCTGATGC  
CCCACCCCGGCCAACTTCCTATTACCGGTACATCGAGAAGTCTGCAGAGGAGCTGGACGAGGAAGTAGAGTATGA  
CATGGACGAGGAGGACTACATCTGGCTGGATATCATGAATGAGCGTCGGAAGACAGAGGGTGTAAAGTCCCATCCC  
GCAGGAGATCTTTGAGTACCTAATGGACCGACTGGAGAAGGAGTTCGTACTTTGAGAGTCATAATAAAGGCGACCC  
TAATGCGCTAGTGGACGAGGATGCTGTTTGTCTGATCTGCAATGATGGTGGTGGTGGCAGAACAGCAATGTCATCCT  
CTTCTGTGACATGTGCAACCTGGCCGTGCACCAGGAGTGCTACGGTGTCCCCTATATCCCCTGAGGGCCAGTGGCT  
GTGCCGCCGTTGCCGTGCAGTCACCTCTCGTGTCTGTGGATTGTGCCCTGTGCCCAACAAGGGCGGTGCCCTTCAA  
GCAGACAGATGACGGGCGCTGGGCCCATGTGGTGTGTGCCTTGTGGATCCCCTGAGGTCTGCTTCGCCAACACGGT  
CTTCCTAGAGCCTATTGACAGCATTGAGCACATCCCACCAGCTCGCTGGAAGCTCACCTGCTACATTTGCAAACA  
ACGGGGCTCAGGGGCCTGCATCCAGTGCCACAAGGCCAACTGTTACACAGCTTTCCATGTGACATGCGCCAGCA  
GGCTGGCCTTTACATGAAGATGGAGCCTGTGCGGGAGACAGGCGCCAACGGCACCTCTTTCAGTGTCCGCAAGAC  
AGCCTACTGCGACATCCACACGCCTCCAGGTTACGACGCGCCGACTGCCTGCCCTGTCCACAGCGAGGGTGAGGA  
GGATGAAGATGAGGAGGAGGATGAGGGTAAGGGCTGGAGCTCAGAGAAAGTCAAGAAGGCCAAGGCCAAGTCCCG  
GATCAAAATGAAGAAGGCACGGAAGATCCTGGCAGAGAAGCGGGCAGCAGCACCTGTGGTGTGAGTGCCCTGCAT  
CCCACCACACAGGCTTAGTAAATCACCAACCGCTGACCATCCAAAGGAAGAGCCAGTTTCATGCAGAGGCTGCA  
CAGTACTGGACACTGAAGCGGCAGTCACGGAATGGGGTCCCATTTGCTACGTGCGCTGCAGACACACCTGCAATC  
TCAGAGGAAGTGTGACCAAGTTGGGAGAGATTCTGAGGATAAGAACTGGGCCCTTAAAGAACAGCTCAAGTCTTG  
GCAGCGGCTCCGGCATGACTTGGAGCGAGCTCGGCTGCTCGTGGAATTGATCCGCAAGCGGGAAAAACTCAAAAG  
GGAGACGATCAAGGTTACGAGATTGCCATGGAGATGCAGCTGACTCCTTTCTCATCCTCCTTCGCAAAACCTT  
GGAGCAGCTCCAAGAGAAGGACACAGGCAACATCTTCAGCGAGCCGGTCCCTCTGTCTGAGGTACCTGACTACCT  
AGACCACATCAAAAAGCCCATGGACTTTTTACCATGAAGCAGAACTTGGAGGCTTACCGCTACCTGAATTTTGA  
TGATTTTGGAGGAGACTTCAACCTCATCGTCAGCAACTGCCTCAAGTATAACGCCAAGGACACCATCTTCTACCG  
GGCAGCAGTGGGCTTCGTGAGCAGGGTGGTGTGTGCTCCGCCAGGCCCCGGCGCCAGGCAGAAAAAATGGGCAT  
TGACTTTGAGACGGGCATGCATATCCCCACAGCCTGGCTGGAGATGAGGCCACACACCACACTGAAGATGCAGC  
CGAGGAAGAGCGGCTGGTCTTGTGAGGAACAGAACCTGCCAGTGGGAAGAACAGCTAAAGCTGCTTCTGGA  
GCGGCTGGACGAAGTGAATGCCAGCAAGCAGAGTGTGGGCCGCTCACGGCGTGCAAAGATGATCAAGAAAGAGAT  
GACGGCACTGCGGCGGAAGCTTGCCCATCAGCGAGAGACGGGACGTGATGGCCCTGAGCGGCATGGCCCCCTCGAG  
CCGGGGTAGTCTGACACCCACCCGGCAGCCTGTGACAAGGATGGGCAGACAGATAGTGGGCAGAGGAGAGCAG  
CAGCCAGGAGACAAGCAAAGGCCTGGGTCCCCAACATGTCTCAACCCCCGCACATGAGGTGGGCAGGAGAACCTC  
AGTTCTGTTCTCCAAAAAGAACCAGAAGACAGCTGGACCGCCCAAGAGGCCGGGCCGGCCCCCAAAAACCGGGA  
GAGCCAGATGACCCCCAGCCACGGAGGCAGTCTGTGGGGCCCCCAGCTCCCATCATGAGTTCCCTGCGTCA  
GCGCAAGCGGGGTAGGAGCCCCCGGCCAGTTTCGAGCTCAGACAGCGACAGTGATAAGTCCACAGAAGACCCCC  
AATGGACTTACCAGCCAATGGCTTCAGCGGTGGAACCAACCAGTGAAGAAGAGTTTCTTGGTATACCGTAATGA  
CTGCAGCCTTCCCCGGAGCAGCTCAGACTCTGAGTCCAGCAGCAGTAGCAGTAGCAGCGCTGCTTCAGACCGGAC  
CAGCACAACGCCCTCAAAACAAGGCCGGGGCAAACCTCCTTCTCTCGGGGCACTTTCCAGAGGACAGCAGTGA  
GGATACCTCAGGCACTGAGAATGAGGCCTACTCCGTGGGCACTGGCCGCGGCGTGGGCCACAGCATGGTAAGGAA  
GAGTCTGGGCCGGGGAGCTGGCTGGCTGTGAGAGGATGAGGACTCCCCGCTGGATGCTCTGGACCTCGTGTGGGC  
CAAATGCCGAGGCTATCCATCATACCCAGCTCTGATCATTGATCCAAAGATGCCCCGAGAAGGTATGTTCCACCA  
TGGGGTTCCCATCCCTGTGCCCCCACTGGAGGTGCTGAACTTGGGGAGCAGATGACCCAGGAAGCCCCGAGAGCA  
TCTCTACCTCGTCTCTTCTTTGACAACAAACGAACCTGGCAGTGGCTGCCAGGACCAAGCTGGTTCTCTGGG  
TGTGAACCAGGACCTAGACAAGGAGAAGATGCTGGAGGGCCGCAAGTCCAACATCCGCAAGTCAGTACAGATCGC

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**FIGURE 1047B**

CTACCACAGGGCTCTGCAGCACCGCAGCAAGGTGCAAGGCGAGCAGAGCAGTGAGACCAGCGATAGTGATTTGATA  
CTGCTCAACACAGCCCAACCTATAGTGCCCTGTGACTTCTCTCCTCCCCTTTGCTCACTGTCCTGGAGTGGCACC  
GGCCTCTGCACTGACTCATTCTGGTCTTGGGGCCAGTCTCAGGGGAAGCTGGGTGGGGGAGGTCCCTCCTGCCC  
TAAGTGCAGCTGGACTGTACAGAACACTCCAAGGGCCAATGGCAGTTCAGCGCAAGGAGAGGGAGGGCCACAGG  
TCAGAAAAAGCTCCAGAGACCTCACAGCATTGTAGGGCGGGGTGGTGGGCCAAAGTTAGGACACTGCGTAAAACA  
GGCCATCCCACCACCTCTACCTGCTCATGCCAGGAGAATCCATAACTGCCTAGAGGCCTGGGGCCCTACCGGTC  
GTGAGGTGAGTGGGCATCTGTCCAGCCTGGAAGAGGGGCACTAGGTGACTCCCTCCCCTGCTGTTGTAAATACTG  
TAATTATCGGAGAATTTAAATTATTCTCATTGTAACTGCGTTTCCGGGTCGCGCCAGAGTCATTGGTACTAAA  
AAAAAAAAAAAAAAAAAGACTGGGGGCTGTCCCATTTCCCTTCTCTTTCCCATAGATTCCCCCACCTTTCAAACCTG  
GTTTGTATTTATTTCAAAGGAAGAAAATATATTGATTCTTAGAAAATAAA

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**FIGURE 1048**

MGVDFDVKTFCNHLRATKPPYECPVETCRKVYKSYSGIEYHLYHYDHDNPPPPQQTFLRKHKKKGRQSRPANKQS  
PSPSEVSQSPGREVMSYAQAQRMVEVDLHGRVHRISIFDNLDVVSEDEEAPEEAPENGSNKENTETPAATPKSGK  
HKNKEKRKDSNHHHHHNVSASTTPKLPEVVYRELEQDTPDAPPRPTSYRYIEKSAEELDEEVEYDMDEEDYIWL  
DIMNERRKTEGVSPIPQEIFEYLMRLEKESYFESHNGDPNALVDEDAVCCICNDGECQNSNVILFCDMCNLAV  
HQECYGVPIIPEGQWLCRRCLQSPSRAVDCALCPNKGGAFAKQTDGGRWAHVVCALWIPEVCFANTVFLEPIDSIE  
HIPPARWKLTICYICKQRGSGACIQCHKANCYTAFHVTCQQAGLYMKMEPVRETGANGTSFSVRKTAYCDIHTPP  
GSARRLPALSHSEGEDEDEEEDGKGWSSEKVKKAKAKSRIKMKKARKILAEKRAAAPVVSVP CIPPHRLSKIT  
NRLTIQRKSQFMQRLHSYWT LKRQSRNGVPLLRLQTHLQSQRNCDQVGRDSEDKNWALKEQLKSWQRLRHDLER  
ARLLVELIRKREKLKRETIKVQQIAMEMQLTPFLILLRKTLEQLQEKDTGNIFSEPVPLSEVPDYLDHIKKPMDF  
FTMKQNLEAYRYLNFDDFEEDFNLI VSNCLKYNAKDTIFYRAAVRLREQGGAVLRQARRQAEKMGIDFETGMHIP  
HSLAGDEATHHTEDAAEEERLV LLENQKHL PVEEQLKLLERLDEVNASKQSVGRSRRAKMIKKEMTALRRKLAH  
QRETGRDGPERHGPSSRGS LTPHPAACDKDGTDSAAEESSQETSKGLGPNMSSTPAHEVGRRTSVLF SKKNPK  
TAGPPKRPGRPKNRESQMTPSHGGSPVGPPQLPIMSSLRQRKGRSPRPSSSSSDSDSDKSTEDPPMDLPANGFS  
GGNQPVKKSFLVYRNDCSLPRSSSDSESSSSSSSSAASDRSTSTTPSKQGRGKPSFSRGTFPEDSS EDTSGTENE A  
YSVGTGRGVGHSMVRKSLGRGAGWLSEDEDSPLDALDLVWAKCRGYPSYPALI IDPKMPREGMFHHGVPIPVPL  
EVLKLGEQMTQEAREHLYLV LFFDNKRTWQWLPRTKL VPLGVNQDL DKEKMLEGRKSNIRKSVQIAYHRAHQHRS  
KVQGEQSSETSDSD

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**FIGURE 1049**

GTACCCCATCCTTTCTCTCGCCCCCTCTACCCGCAGCTCCTGGCGCTCGGCGGGGCTAACTGCAGCGCGGAGAT  
CTCGGCCGCCAAGCTCCGCCTCCCGCCCCGGGCTGTGCCCCGGGGCTCGCCTGAGGCCGACCACCCGCACCCAC  
CTCTAGCGGCTTTGCTCGAGGCCCCACCTTCTTCCACCCCCGGCAAACCTCCAGTAGGCTCGCCCTCGCTGACTCC  
CCGCCCCCGCGTCAACTGCAAGGGGGCCCGCCCATAGCCAGTTCCGGGGCGGTTGCTCACATCGACCGGAACCTCC  
CGCCCCCTCCCGCGGGCCCCCTGGGGCCGTAGGAGGCCGCAGCGAGGAGGTAGAGGGGGCGGGGGTTCGCACTAGGGT  
GTCCCTAGAGAACGAGGACTCTGAAGGCGGGACATTTGGGCGACCCCCGGGCGGGGCCAGCCATTAAACAGTCCC  
ACTTCTGTGCCAGACACTGAACTGGGCTCTTGACGGGCATCATCTCTTAATCCTCAGAACATCCAGGGAGCTCC  
ACAGGATCCCCATATCCTGGGCCATGAGTGAGTTGAAAGACTGCCCTTGAGTTCCACGACTTCAAGTCTGTGG  
ATCACCTGAAGGTCTGTCCCCGCTACACGGCAGTGCTGGCACGCTCTGAGGATGATGGCATCGGCATCGAGGAGC  
TGGACACCCTGCAGCTGGAGCTGGAGACCCTGCTGTCTTCTGCCAGCCGGCGCCTGCGTGTGCTTGAGGCCGAAA  
CCCAGATCCTCACCAGCTGGCAGGATAAGAAAGGTGACAGACGATTCTGAAGCTGGGTGAGACCATGAACTTG  
GAGTCCCCCCCCAAACATGGGAAGCCCAAGAAGCAGAACTGGAAGGGAAGGCAGGACATGGGCCGGGCCCTGGCC  
CAGGACGGCCCCAAATCCAAAAACCTTCAGCCCAAGATCCAGGAATATGAATTCAGTGATGACCCATATCGACGTGC  
CACGGATCCCCAAAAATGATGCCCCAACAGGTTCTGGGCTTCAGTGAGCCCTACTGTGCTGACATCACCAGCG  
AGGAGGTCCGCACACTTGAGGAGTTACTGAAGCCCCCAGAAGATGAGGCTGAGCATTACAAGATCCCACCCCTGG  
GGAAGCACTACTCCCAGCGCTGGGCCCAGGAGGACCTGCTGGAGGAGCAGAAGGATGGGGCCCCGGGCAGCGGCTG  
TGGCTGACAAGAAGAAAGGCCTCATGGGGCCACTGACCGAACTGGACACTAAAGATGTGGATGCCCTGCTGAAGA  
AGTCTGAGGCCCAGCATGAACAGCCGGAAGATGGATGCCCTTTGGTGCCCTGACGCAGCGCCTCCTGCAGGCC  
TGGTGGAGGAAAATATTATTTCCCTATGGAGGATTCTCCTATTCTGACATGTCTGGGAAAGAATCAGGGGCTG  
ACGGGGCAAGCACCTCCCCTCGCAATCAGAAACAAGCCCTTCAGTGTGCCGATACTAAGTCCCTGGAGAGCCGCA  
TCAAGGAGGAGCTAATTGCCCAGGGCCTTTTGGAGTCTGAGGACCGCCCCGCAGAGGACTCCGAGGATGAGGTCC  
TTGCTGAGCTTCGCAAACGGCAGGCTGAGCTGAAGGCACCTAGTGCCACACAACCGCACCAAGAAGCACGACCTGC  
TGAGGCTGGCAAAGGAGGAGGTGAGCCGGCAGGAGCTGAGGCAGCGGTGCGCATGGCTGACAACGAGGTCATGG  
ACGCCTTTCGCAAGATCATGGCTGCCCCGGCAGAAGAAGCGGACTCCACCAAGAAAGAAAAGGACCAGGCCTGGA  
AGACTCTGAAGGAGCGTGAGAGCATCCTGAAGCTGCTGGATGGGTAGCCCTCACCCCTGCCTCAGGCTGATTATC  
TGGCCTAGGGGAGGGGAAGGGAGGCCCACTTCCCTCTTTGGGCACAGGAAACATTGGCCTGTGGCTGTCCCTCAA  
ATGGCGGCAGTCTCTAGAGGGCCGTGGCCCTTCCCCTGAGGTCTTTTGGCCTAGCTCTGTACAACAGGACACAG  
GAAGCCCTGCTGGGCTAGCCTGAGGCCTAGTCTCTGCTTGGTCCCCGAGATGGGGTTGGAGGGGACTTCGTTTCT  
GGGTCTTCTCTTCCCCTCTTTACCATCCCCACTCCCTAATCCCCTACCCCTGTCTCCCCTTCAAGGACTTCTC  
CCTTGTGGTTTTGTAAAGTGCAAACTTAAGAATAAAGTGACTGCTGTGGTTTTTCAAAAAAAAAAAAAA

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**FIGURE 1050**

MSELKDCPLQFHDFKSVDHLKVCPRYTAVLARSEDDGIGIEELDTLQLELETLLSSASRRLRVLEAETQILTDWQ  
DKKGDRRFLKLGRDHELGAPPKHGKPKKQKLEGKAGHGPGPGPRPKSKNLQPKIQEYEFTDDPIDVPRIPKND  
PNRFWASVEPYCADITSEEVRTLEELLKPPEDAEHYKIPPLGKHYSQRWAQEDLLEEQKDGARAAAVADKKKGL  
MGPLTELDTKDVDALLKKSEAQHEQPEDGCPFGALTQRLQLALVEENIISP MEDSPIPDMSGKESGADGASTSPR  
NQNKPFVSPHTKSLESRIKEELIAQGLLESEDRPAEDSEDEVLAELRKRQAEKALSAHNRTKKHDLRLAKEEV  
SRQELRQRVRMADNEVMDAFRKIMAAARQKKRTP TKKEKDQAWKTLKERESILKLLDG

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**FIGURE 1051**

GTACCCCATCCTTTCTCTCGCCCTCCTACCCGCAGCTCCTGGCGCTCGGCGGGGCTAACTGCAGCGCGGAGAT  
CTCGGCCGCCAAGCTCCGCCTCCCGCCCCGGGCTGTGCCCCGGGGCTCGCCTGAGGCCGACCACCCGCACCCAC  
CTCTAGCGGCTTTTGCTCGAGGCCACCTTCTTCCCACCCCGGCAAACCTCCAGTAGGCTCGCCCTCGCTGACTCC  
CCGCCCCCGCTCAACTGCAAGGGGCCCCGCCATAGCCAGTTCGGGGCGGTTGCTCACATCGACCGGAACTCCC  
CGCCCCCTCCCGCGGCCCTGGGGCCGTAGGAGGCCGAGCGAGGAGGTAGAGGGGGCGGGGGTTCGCACTAGGGT  
GTCCCTAGAGAACGAGGACTCTGAAGGCGGGACATTGTTGGGCGACCCCGGGCGGGGCCAGCCATTAAACAGTCCC  
ACTTCTGTGCCAGACACTGAACTGGGCTCTTGACGGGCATCATCTCTTAATCCTCAGAACATCCAGGGAGCTCC  
ACAGGATCCCATATCCTGGGCCATGAGTGAGTTGAAAGACTGCCCTTGAGTTCCACGACTTCAAGTCTGTGG  
ATCACCTGAAGGTCTGTCCCCGCTACACGGCAGTGCTGGCAGCTCTGAGGATGATGGCATCGGCATCGAGGAGC  
TGGACACCCTGCAGCTGGAGCTGGAGACCCTGCTGTCTTGCCAGCCGGCGCTGCGTGTGCTTGAGGCCGAAA  
CCAGATCCTCACCAGCTGGCAGGATAAGAAAGGTGACAGACGATTCTGAAGCTGGGTGAGACCATGAACTTG  
GAGTCCCCCCTAAACATGGGAAGCCCAAGAAGCAGAACTGGAAGGGAAGGCAGGACATGGGCCCGGGCCCTGGCC  
CAGGACGGCCCAAATCCAAAACCTTCAGCCCAAGATCCAGGAATATGAATTCAGTGATGACCCATATCGACGTGC  
CACGGATCCCAAAAATGATGCCCCAACAGGTTCTGGGCTTCAGTGGAGCCCTACTGTGCTGACATCACCAGCG  
AGGAGGTCCGCACACTTGAGGAGTTACTGAAGCCCCCAGAAGATGAGGCTGAGCATTACAAGATCCACCCCTGG  
GGAAGCACTACTCCCAGCGCTGGGCCCAGGAGGACCTGCTGGAGGAGCAGAAGGATGGGGCCCGGGCAGCGGCTG  
TGGCTGACAAGAAGAAAGGCCTCATGGGGCCACTGACCGAACTGGACACTAAAGATGTGGATGCCCTGCTGAAGA  
AGTCTGAGGCCCAGCATGAACAGCCGGAAGATGGATGCCCTTTGGTGCCCTGACGCAGCGCCTCCTGCAGGCC  
TGGTGGAGGAAAATATTATTTCCCTATGGAGGATTCTCCTATTCTGACATGTCTGGGAAAGAATCAGGGGCTG  
ACGGGGCAAGCACCTCCCTCGCAATCAGAACAAGCCCTTCAGTGTGCCGCATACTAAGTCCCTGGAGAGCCGCA  
TCAAGGAGGAGCTAATTGCCCAGGGCCTTTTGGAGTCTGAGGACCGCCCCGAGAGGACTCCGAGGATGAGGTCC  
TTGCTGAGCTTCGCAAACGGCAGGCTGAGCTGAAGGCACTTAGTGCCACAACCGCACCAAGAAGCACGACCTGC  
TGAGGTGAGCGTTAGCAGGATGCACAGTCCCGGGGGTGGCCTTGAGGCTGTGGCCACGGCTAGTCACCTTTCAG  
GGGTTTTACAACAGGCTTTTCAATCCTGGCTGGCCTCTAAATCACCTGGAGAGCCTCGAAAAAACAGCAGTGGC  
CAGTCCACCGGGTATGTCCCAAACAATTCTGATTCCACAGAGTGGGGCTCAGGCATCTGTGACTGACCGATTGA  
TTTGATTTGTTTTGTTTTGTTTTTTTTTTGAGAGGGAGTCTCGCACTGTACCCAGGCTGGAGTGAGTGGCATG  
ATCTCGGCTCACTGCAAGCTCCGCCTCCAGGTTTCATGCCATTCTCCTGCCTCAGCCTCCTGAGTAGCTGATACT  
ACAGGCACCCACCACGCCCAGCTAATTTTTTTGTATTTTGTAGTAGAGACGGGGTTTACCCTGTTAGCCAGG  
ATGGTCTCGATCTCCTGACCTCGTGATCCACCCGCCTCGGCCTCCCAAAGTGCCGGGATTACAGGCGTGAGCCAC  
TGCGCCTGGCCTAGTTTGGTTTTTTAATTATGGTAAAGGCATAATATAAAATGTATCTCCATGGGAGGCTGAGGC  
AGGAGAATCAGTTGAACCTGGGAGGCGGAGGTTGCAGTGAGCTGAGACTGCACCATTGCATTCCAGCCTGGGCAA  
CAAGAGTGAACTGCATCTCAAAAAAAAAAAGAAAAAAAAATTTACGCTTCTTAACCATTTTTTAAGTGTACAGTTT  
AGTAGTGTACCCATATTCACATTGTTGTGTGATTTATTTTTTGTCTTTTCATGCTTCTTTTCTTTTTATCCCCA  
AAGTTTGTATTATAAAATTTGATACACACAGAAAATCTGAAAGAATCATACAATAAACATCAGTATATTCTCCA  
CCTAAAAAAAAAAAAAAAAAAAA



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**FIGURE 1052**

MSELKDCPLQFHDFKSVDHLKVCPRYTAVLARSEDDGIGIEELDTLQLELETLLSSASRRLRVLEAETQILTDWQ  
DKKGDRRFLKLGRDHELGAPPKHGKPKKQKLEGKAGHGPGPGPRPKSKNLQPKIQEYFTDDPIDVPRIPKND  
PNRWFASVEPYCADITSEEVRTLEELLKPPEDAEHYKIPPLGKHYSQRWAQEDLLEEQKDGARAAAVADKKKGL  
MGPLTELDTKDVDALLKKSEAQHEQPEDGCPFGALTQRLQLALVEENIISP MEDSPIPDMSGKESGADGASTSPR  
NQNKPFVSPHTKSLESRIKEELIAQGLLESEDRPAEDSEDEVLAELRKRQAEKALS AHNRTKKHDLR

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**FIGURE 1053**

GTACCCCCATCCTTTCTCTCGCCCCCTCCTACCCGCGAGCTCCTGGCGCTCGGCGGGGCTAACTGCAGCGCGGAGAT  
CTCGGCCGCCAAGCTCCGCCTCCCGCCCCGGGCTGTGCCCCGGGGCTCGCCTGAGGCCGACCACCCGCACCCAC  
CTCTAGCGGCTTTGCTCGAGGCCACCTTCTTCCACCCCCGGCAAACCTCCAGTAGGCTCGCCCTCGCTGACTCC  
CCGCCCCCGCGTCAACTGCAAGGGGCCCCGCCATAGCCAGTTCCGGGGCGGTTGCTCACATCGACCGGAACCTCC  
CGCCCCCTCCCGCGGGCCCTGGGGCCGTAGGAGGCCGAGCGAGGAGGTAGAGGGGGCGGGGGTTCGCACTAGGGT  
GTCCCTAGAGAACGAGGACTCTGAAGGCGGGACATTTGGGCGACCCCCGGGCGGGGGCCAGCCATTAAACAGTCCC  
ACTTCTGTGCCAGACACTGAACTGGGCTCTTGACGGGCATCATCTCTTAATCCTCAGAACATCCAGGGAGCTCC  
ACAGGATCCCCATATCCTGGGCCATGAGTGAGTTGAAAGACTGCCCTTGCACTTCCACGACTTCAAGTCTGTGG  
ATCACCTGAAGGTCTGTCCCCGCTACACGGCAGTGCTGGCACGCTCTGAGGATGATGGCATCGGCATCGAGGAGC  
TGGACACCTGCAGCTGGAGCTGGAGACCTGCTGTCTTCTGCCAGCCGGCGCTGCGTGTGCTTGAGGCCGAAA  
CCCAGATCCTCACCAGCTGGCAGGATAAGAAAGGTGACAGACGATTCTGAAGCTGGGTGAGACCATGAACTTG  
GAGCTCCCCCAAACATGGGAAGCCCAAGAAGCAGAACTGGAAGGGAAGGCAGGACATGGGCCGGGGCCCTGGCC  
CAGGACGGCCCAAATCCAAAAACCTTCAGCCCAAGATCCAGGAATATGAATTCAGTATGACCCATATCGACGTGC  
CACGGATCCCCAAAAATGATGCCCCAACAGGTTCTGGGCTTCAGTGGAGCCCTACTGTGCTGACATCACCAGCG  
AGGAGGTCCGCACACTTGAGGAGTTACTGAAGCCCCCAGAAGATGAGGCTGAGCATTACAAGATCCCACCCCTGG  
GGAAGCACTACTCCCAGCGCTGGGCCCAGGAGGACCTGCTGGAGGAGCAGAAGGATGGGGCCCGGGCAGCGGCTG  
TGGCTGACAAGAAGAAAGGCCTCATGGGGCCACTGACCGAACTGGACACTAAAGATGTGGATGCCCTGCTGAAGA  
AGTCTGAGGCCCAGCATGAACAGCCGGAAGATGGATGCCCTTTGGTGCCCTGACGCAGCGCCTCCTGCAGGCCC  
TGGTGGAGGAAAATATTATTTCCCTATGGAGGATTCTCCTATTCTGACATGTCTGGGAAAGAATCAGGGGCTG  
ACGGGGCAAGCACCTCCCCTCGCAATCAGAACAAAGCCCTTCAGTGTGCCGCATACTAAGTCCCTGGAGAGCCGCA  
TCAAGGAGGAGCTAATTGCCCAGGGCCTTTTGGAGTCTGAGGACCGCCCCGCAGAGGACTCCGAGGATGAGGTCC  
TTGCTGAGCTTCGCAAACGGCAGGCTGAGCTGAAGGCACTTAGTGCCACAACCGCACCAAGAAGCACGACCTGC  
TGAGGTGAGCGTTAGCAGGATGCACAGTCCCGGGGGTGGCCTTGAGGCTGTGGCCACGGCTAGTCACCTTTCAG  
GGTTTTTACAACAGGCTTTCCAATCCTGGCTGGCCTCTAAATCACCTGGAGAGCCTCGAAAAAACAGCAGTGGC  
CAGTCCACCGGGTATGTCCCAAACAAATTCTGATTCCACAGAGTGGGGCTCAGGCATCTGTGACTGACCGATTGA  
TTTGATTTGTTTTTGTGTTTTTTTTTTTTGAGAGGGAGTCTCGCCTGGGCAACAAGAGTGAACTGCATCTCAAA  
AAAAAAAAAGAAAAAAATTTACGCTTCTTAACCATTTTTAAGTGACAGTTTAGTAGTGTTACCCATATTCACAT  
TGTGTGTGATTTATTTTTTGTCTTTTCATGCTTCTTTTCTTTTATCCCCAAAGTTTTGTTATTAATAAATTGA  
TACACACAGAAAATCTGAAAGAATCATACAATAAACATCAGTATATTCTCCACCTAAAAAAAAA

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**FIGURE 1054**

MSELKDCPLQFHDFKSVDHLKVCPRYTAVLARSEDGIGIEELDTLQLELETLLSSASRRLRVLEAETQILTDWQ  
DKKGDRRFLKLGRDHELGAPPKHGKPKKQKLEGKAGHGPGPGPRPKSKNLQPKIQEYEFTDDPIDVPRIPKND  
PNRFWASVEPYCADITSEEVRTLEELLKPPEDAEHYKIPPLGKHYSQRWAQEDLLEEQKDGAARAAVADKKKGL  
MGPLTELDTKDVDALLKKSEAQHEQPEDGCPFGALTQRLLOALVEENTISPMEDSPIPDMSGKESGADGASTSPR  
NQNKPFSPHTKSLESRIKEELIAQGGLLESEDPAEDSEDEVLAELRKRQAEKALSAHNRTKKHDLLR

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**FIGURE 1055**

CAGCCAGCGCCCGCGATGACTGCCACTCTCCGCCCCCTACCTGAGTGCCGTGCGGGCCACATTGCAGGCTGCCCTC  
TGCCTGGAGAACTTCTCCTCCCAGGTTGTGGAACGACACAACAAGCCGGAAGTGGAAGTCAGGAGTAGCAAAGAG  
CTCCTGTTACAACCTGTGACCATCAGCAGGAATGAGAAGGAAAAGGTTCTGATTGAGGGCTCCATCAACTCTGTC  
CGGGTCAGCATTGCTGTGAAACAGGCTGATGAGATCGAGAAGATTTTGTGCCACAAGTTCATGCGCTTCATGATG  
ATGCGAGCAGAGAACTTCTTTATCCTTCGAAGGAAGCCTGTGGAGGGGTATGATATCAGCTTTCTGATCACCAAC  
TTCCACACAGAGCAGATGTACAAACACAAGTTGGTGGACTTTGTGATCCACTTCATGGAGGAGATTGACAAGGAG  
ATCAGTGAGATGAAGCTGTCAGTCAATGCCCGTGCCCGCATTGTGGCTGAAGAGTTCCTTAAGAATTTT**TAAACC**  
ATCTGGCTGGATCTCGTGGCCTTCCCCCTCAGACTACCCATGTCTCCACGAAGGCGTCCTGGAGTCACTCCCCGA  
GCAGCGCGGCGGCGGCAGGGAGTTGGGTTGGGGTGGGCATTTGATGCGGGAGGTGGGTGGTGTGCTTGCTAGCTG  
GGCAAGAAAGCAGCAGTGGACCTGCCCCAAGGCCACACGTGCCTGGTCAGGCTGGCTTCTGATGTTTCAGTCCCCT  
GGGCCGGGACAGATTTTTTTTAAAGTCTTGAAACTTAAACTCTGTGCTTGTAACAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1056**

MTATLRPYLSAVRATLQAALCLENFSSQVVERHNKPEVEVRSSKELLQPV TISRNEKEKVLIEGSINSVRVSIA  
VKQADEIEKILCHKFMRFMMRAENFFILRRKPVEGYDISFLITNFHTEQMYKHKLVDFVIHFMEEDKEISEMK  
LSVNARARIVAEEFLKNF

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**FIGURE 1057**

GCCTGCCTCTTCCAGAGAGACTCCCCATTGCTGTCTCTTGTGTGTGTGCATGCACAAGGAAGGCTTGGTTGTGTG  
CCAGGATAAGGGGCACAAGGGCCTCGGGTGTGGCCAGAGACCCCATGCTTAAGCTTTTATGGTATAGGTCAGGCT  
GCAGGGGTTTGAAGGGCTCAGTTGTATATCAGAATCTTCAGAGCACTGCGATGTTTCAGGGGTGAGTCAGGCTGT  
AGATGTGCACGGGGTCTTCTGAAGGGTCAGTTTCTGTAATCACTTTTCAGGTGTGTTCAGGGCCTTGTGCAGTAACA  
GTGCACACAGAAGTTAGTGTCTTCTGTGGGCTAAGGGTGTAGCTCTGTATCAGGATTCTGGGAGTGGGTCTGGAT  
TTCTGGTGTGTGGACTTAAGAAGCTGTGTTCAGACTTGGGGGAGGGGCGTTCATGTATAACTGGGTTTCACATAGGC  
CAAGACTCCCAGGTGCATTTTAGGCAGAGCCTCAGGTGTGTTAGAGGTCCCAGGGGCAGAGAGGCTATAGGTGCT  
GTCAGAGGCCTTGGGGACATTTAGGGCAGAGCCTCAGGTGACAGGTCCAGGGGACAGTGGGAGCCAAAGGGCAAGTG  
CTAGAGTTGCAGTGAATTTAGAGCAAAGCCTCAGCTAAGTGACACATCCAGGGCAGTAGGGGATCTATCTAGGT  
TCGTGCTGGGCCTCAGGTAAAGTGACAGGCCTTAGGACAATGGGGGCTGTGGCATGCGTCAGGTTACCTGCCTTGA  
TATGGGATCGTGACAGGCCCCCTCCCTATGTGCAGGAGACAAGCAGCCCAAGAAACAGGAGAAAAACCCAGTGTTG  
GTGTCCCCAGAGTTTGTGGATGAAGCTCTGTGTGCGTGGAGGAGTACCTTAGCAACTTGGCCCCACATGGACATC  
GACAAGGACCTGGAGGCCCCGCTGTACCTCACCCTCGAGGGCTGGTCCCTCTTCCCTCCAGCGCTACTACCAAGTG  
GTCCACGAAGGGGCAGAACTCAGGCACCTCGACACTCAGGTCCAGCGCTGTGAGGACATCCTGCAGCAGCTGCAG  
GCCGTGGTACCCAGATAGACATGGAAGGGGATCGCAACATCTGGATCGTGAAGCCAGGAGCCAAGTCCCGCGGA  
CGAGGCATCATGTGCATGGACCACCTGGAGGAGATGCTGAAGCTGGTGAACGGCAACCCCGTGGTGATGAAGGAC  
GGCAAGTGGGTGGTGCAGAAGTATATTGAGCGGCCCCCTCCTCATCTTTGGCACCAAGTTTGACCTCAGACAGTGG  
TTCTCTGGTAACTGACTGGAACCCACTTACCGTGTGGTCTACCGCGACAGCTATATCCGCTTTTCCACGCAGCCC  
TTCTCCCTGAAGAACCTGGACAACCTCAGTGCACCTGTGCAACAACCTCCATCCAGAAGCACCTGGAGAACTCATGC  
CATCGGCATCCACTGCTTCCGCCAGACAACATGTGGTCTAGCCAGAGGTTCCAGGCCCACCTGCAGGAGATGGGT  
GCCCCAAATGCTTGGTCCACCATCATCGTGCCTGGCATGAAGGATGCTGTGATCCACGCACTTCAGACCTCCCAG  
GACACCGTGCAGTGTGGAAGGCCAGCTTTGAGCTCTATGGCGCTGACTTCGTGTTCCGGGAGGACTTCCAGCCC  
TGGCTGATTGAGATCAACGCCAGCCCCACGATGGCACCCTCCACAGCAGTCACTGCCCCGCTCTGTGCTGGCGTG  
CAAGCTGACACCCTGCGCGTGGTCATTGACCGGATGCTGGACCGCAACTGTGACACAGGAGCCTTTGAGCTCATC  
TATAAGCAGCCCGTACCACTTCCCCAGCCTCCACACCAAGGCCAGCTGCCTTCTCCCCATGTACTCCGACACC  
AGGGCCAGGTCTCAGACGACAGCACAGCAAGCTGGTGGGCACCTAAGGCCCTGTGACCACAGGCAAGGCCTTGA

GGACTCTACCCACGGCTAAGGTCTTCATTTCCCTCCCACCGAACCTTGATTTCAAGGTGGCACCCAGCATCCTGA  
AGCCAAGAAAGGTGGGCCTCGACCTGTGACTCACACCCAGTGACAGTGTGAGCACGGGGTCAGGGCTGGAGGG  
CACAGGCAGAGGGCAGCTCCCAGGCTGGCTGGCACCCCAAGGGAAGAGCTGGTCTCCCTCAGAAGCCCCCTTCCTC  
CACAGACTTCTGATCATCTCCCTCTTCTCCCCCTCCTTTACACCGAGGCTCCTGCTCTCCTGTGCCTCCGAGGCC  
CCCAGCTGGAAGTGCCTTGTTCCTCTGCCCTTTGAAGTCGGAACAATTCCTAGCACCTGTGGAAGGTCAAGGC  
CAAAGGCCAAATTCAAGGCCAGACTGTGACAAACCCAGGGCTGAGGCCTGCCCCATGAAGAGGCTGAGCCCCCTGA  
AACCCCTGCCCTTGTGGTACATTCCAGAGGCGCAGGGGCTGGGGGATATGAAGCTAGGGAAGCCCCCTGCTTC  
GATTCCCCACTGCCCTTGTCTGGATCCAACACCAATAAAAAAGAAACAAGTGAAGTAAAAAAAAAAAAAAAAAA  
AAA

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**FIGURE 1058**

MDIDKDLEAPLYLTPEGWSLFLQRYYQVVHEGAELRHLDLTQVQRCEDILQQLQAVVPQIDMEGDRNIWIVKPGAK  
SRGRGIMCMDHLEEMKLKLVNGNPFVVMKDGKWVQKYIERPLLIFGTFDLRQWFLVTDWNPLTVWFYRDSYIRFS  
TQPFSLKNLDNSVHLCNNSIQKHLENSCHRHPLLPDNDMWSSQRFQAHLQEMGAPNAWSTIIVPGMKDAVIHALQ  
TSQDTVQCRKASFELYGADFVFGEDFQFWLIEINASPTMAPSTAVTARLCAGVQADTLRVVIDRMLDRNCDTGAF  
ELIYKQPVTTSPPASTPRPSCLLPMYSDTRARSSDDSTASWWALRPCRPOARP

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**FIGURE 1059**

GTCTTGGCTCGGGAGATGGACGGCCGCCGTGTTTTGGGCCGGTTCTGGAGTGGCTGGCGGCGGGGCCTGGGTGTC  
CGCCAGTGCCCGAGGACGCAGGCTTTGGCACCGAAGCCCGGCATCAGAGGCAACCCCGCGGCTCCTGCCAACGG  
TCGGGGCCCCCTCGGGGACCAGCCCTTCGCGGGGCTGCTGCCAAAAACCTCAGTCGGGAGGAGCTGGTTGATGCG  
CTGCGGGCAGCCGTGGTGGACCGGAAAGGAAAACCAGGAGAGCTGACGTTGTTCTCAGTGCTGCCAGAGCTGAGC  
CAGTCCCTAGGGCTCAGGGAGCAGGAGCTTCAGGTTGTCCGAGCATCTGGGAAAGAAAGCTCTGGGCTTGTA CT  
CTCTCCAGCTGTCCCCAGACAGCTAGTCGCCTCCAGAAGTACTTCACCCATGCACGGAGAGCCCCAAAGGCCACAC  
GCCACCTACTGTGCTGTCACTGATGGGATCCCAGCTGCTTCTGAGGGGAAGATCCAGGCTGCCCTGAAACTGGAA  
CACATTGATGGGGTCAATCTCACAGTTCCAGTGAAGGCCCCATCCCGAAAGGACATCCTGGAAGGTGTCAAGAAG  
ACTCTCAGTCACTTTCGTGTGGTAGCCACAGGCTCTGGCTGTGCCCTGGTCCAGCTGCAGCCACTGACAGTGTTT  
TCCAGTCAACTACAGGTGCACATGGTACTACAGCTCTGCCCTGTGCTTGGGGACCACATGTACTCTGCCCGTGTG  
GGCACTGTCTTGGGCCAGCGATTTCTGCTGCCAGCTGAGAACAAAGCCCCAAAGACAGGTCTTGATGAAGCC  
CTCCTCAGACGCCTCCACCTGACCCCTCCCAGGCTGCCAGCTGCCCTTGACCTCCACCTACATCGGCTCCTT  
CTCCCAGGACACCAGGGCCAGGGACACCCCTGTTGAGCTCCTGGCACCACCTGCCCCCTTATTTCTCCAGGACCCTA  
CAGTGCTTGGGGCTCCGCTTACAATAGTCTCCTCCCTCTGTTCTGACCCCTCACACACACTGGAAAGTGAGGGTG  
GGGGCTCTGCAGTCAGACAAACCTAAGATCACATCCTGGACAGGCCACTTGCTTGCTGTGTGGCATTGGGCAAGT  
AACTTTACCTCTCTGGACTTGTGATAATAAAAGTTCCTACCTC



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**FIGURE 1060**

ATAGGGTCAGTGGGCCGCTTGGCGGTGTCGTTGCGGTACCAGGTCCGCGTGAGGGGTTCTGGGCAGG  
CACAATGGCGTCTCGAGCAGGCCCGCGAGCGGCCGGCACCAGCGGCAGCGACTTTCAGCACCGGGAGCGCGTCGC  
CATGCACTACCAGATGAGTGTGACTCTCAAGTATGAAATCAAGAAGCTGATCTACGTACATCTGGTCATATGGCT  
GCTGCTGGTTGCTAAGATGAGCGTGGGACACCTGAGGCTCTTGTCACATGATCAGGTGGCCATGCCCTATCAGTG  
GGAATACCCGTATTTGCTGAGCATTTTGCCCTCTCTCTTGGGCCTTCTCTCCTTTCCCGCAACAACATTAGCTA  
CCTGGTGCTCTCCATGATCAGCATGGGACTCTTTTCCATCGCTCCACTCATTTATGGCAGCATGGAGATGTTCCC  
TGCTGCACAGCAGCTCTACCGCCATGGCAAGGCCTACCGTTTCCTCTTTGGTTTTTCTGCCGTTTCCATCATGTA  
CCTGGTGTTGGTGTGGCAGTGCAAGTGCATGCCTGGCAGTTGTAACAGCAAGAAGCTCCTAGACTCTTGGTT  
CACCAGCACACAGGAGAAGAAGCATAAATGAAGCCTCTTTGGGGTGAAGCCTGGACATCCCATCGAATGAAAGGA  
CACTAGTACAGCGGTTCCAAAATCCCTTCTGGTGATTTTAGCAGCTGTGATGTTGGTACCTGGTGCAGACCAGGC  
CAAAGTTCTGGAAAGCTCCTTTTGCCATCTGCTGAGGTGGCAAACTATAATTTATTCCTGGTTGGCTAGAACTG  
GGTGACCAACAGCTATGAAACAAATTTAGCTGTTTGAAGTTGAACCTTTGAGGTTTTTCTTTAAGAATGAGCTTC  
GTCTTGCCTCTACTCGGTCATTCTCCCCATTTCCATCCATTACCCCTTAGCCATTGAGACTAAAGGAAATAGGG  
AATAAATCAAATTACTTCATCTCTAGGTCACGGGTCAGGAAACATTTGGGCAGCTGCTCCCTTGGCAGGCTGTGG  
TCTCCTCTGCAAAGCATTTTAATTAAAAACCTCAATAAAGA

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**FIGURE 1061**

MASRAGPRAAGTDGSDFQHRERVAMHYQMSVTLKYEIKKLIYVHLVIWLLLVAKMSVGHLRLLSHDQVAMPYQWE  
YPYLLSILPSLLGLLSFPRNNISYLVLSMISMGLFSIAPLIYGSMEMFPAAQQLYRHGKAYRFLFGFSAVSIMYL  
VLVLAVQVHAWQLYYSKKLLDSWFTSTQEKHKH

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**FIGURE 1062**

GGAAGTTGAGCGGCGGCAAGAAATAATGGCGGCAGCTACGGGGGATCCTGGACTCTCTAAACTGCAGTTTGCCCC  
TTTTAGTAGTGCCTTGGATGTTGGGTTTTGGCATGAGTTGACCCAGAAGAAGCTGAACGAGTATCGGCTGGATGA  
AGCTCCCAAGGACATTAAGGGTTATTACTACAATGGTGACTCTGCTGGGCTGCCAGCTCGCTTAACATTGGAGTT  
CAGTGCTTTTGACATGAGTGCTCCCACCCAGCCCGTTGCTGCCAGCTATTGGAACACTGTATAACACCAACAC  
ACTCGAGTCTTTCAAGACTGCAGATAAGAAGCTCCTTTTGGACAAGCAGCAAATGAGATATGGGAATCCATAAA  
ATCAGGCACTGCTCTTGAAAACCCCTGTACTCCTCAACAAGTTCCCTCCTCTTGACATTTGCAGATCTAAAGAAGTA  
CCACTTCTACTATTGGTTTTGCTATCCTGCCCTCTGTCTCCAGAGAGTTTACCTCTCATTACAGGGGCCAGTGGG  
TTTGGATCAAAGGTTTTCACTAAAACAGATTGAAGCACTAGAGTGTCATATGATAATCTTTGTCAAACAGAAGG  
AGTCACAGCTCTTCCTTACTTCTTAATCAAGTATGATGAGAACATGGTGCTGGTTTTCTTGCTTAAACACTACAG  
TGATTTCTTCCAAGGTCAAAGGACGAAGATAACAATTGGTGATATGATCCCTGTAACCTTAGCCAGTACCCTGG  
ATGGCCTTTGAGGAATTTTTTGGTCCTAGCAGCCACAGATGGAGTAGCAGTTTCCAGTCTGTTGAAGTTGTTTTG  
CTTCCGTGACCGTACCATGCAGGGGGCGAGAGACGTTGCCACAGCATCATCTTCGAAGTGAAGCTTCCAGAAAT  
GGCATTTAGCCAGATTGTCTAAAGCAGTTGGATGGGAAAAGAACCAGAAAGGAGGCATGGGACCAAGGATGGT  
GAACCTCAGTGAATGTATGGACCCTAAAAGGTTAGCTGAGTCATCAGTGGATCTAAATCTCAAACCTGATGTGTTG  
GAGATTGGTTTCTACTTTAGACTTGGACAAGGTTGTGTCTGTCAAATGTCTGCTGCTTGGAGCCGGCACCTTGGG  
TTGCAATGTAGCTAGGACGTTGATGGGTTGGGGCGTGAGACACATCACATTTGTGGACAATGCCAAGATCTCCTA  
CTCCAATCCTGTGAGGCAGCCTCTCTATGAGTTTGAAGATTGCCTAGGGGGTGGTAAGCCCAAGGCTCTGGCAGC  
AGCGGACCGGCTCCAGAAAATATTCCCCGGTGTGAATGCCAGAGGATTCAACATGAGCATACCTATGCCTGGGCA  
TCCAGTGAACCTTCTCCAGTGTCACTCTGGAGCAAGCCCGCAGAGATGTGGAGCAACTGGAGCAGCTCATCGAAAG  
CCATGATGTCGTCTTCCTATTGATGGACACCAGGGAGAGCCGGTGGCTTCCTGCCGTGCTGCTGCAAGCAAGAG  
AAAGCTGGTCATCAATGCTGCTTTGGGATTTGACACATTTGTTGTGTCATGAGACATGGTCTGAAGAAACCAAAGCA  
GCAAGGAGCTGGGGACTTGTGTCAAACCACCCCTGTGGCATCTGCTGACCTCCTGGGCTCATCGCTTTTTGCCAA  
CATCCCTGGTTACAAGCTTGGCTGCTACTTCTGCAATGATGTGGTGGCCCCAGGAGATTCAACCAGAGACCGGAC  
CTTGGACCAGCAGTGCAGTGTGAGTCGTCCAGGACTGGCCGTGATTGCAGGAGCCCTGGCCGTGGAATTGATGGT  
ATCTGTTTTGCAGCATCCAGAAGGGGGCTATGCCATTGCCAGCAGCAGTGACGATCGGATGAATGAGCCTCCAAC  
CTCTCTTGGGCTTGTGCCTCACCAGATCCGGGGATTTCTTTACGGTTTGATAATGTCCTTCCCGTCAGCCTGGC  
ATTTGACAAATGTACAGCTTGTCTTCCAAAGTTCTTGATCAATATGAACGAGAAGGATTTAACTTCTAGCCAA  
GGTGTTTAATTCTTCACATTCCTTCTTAGAAGACTTGACTGGTCTTACATTGCTGCATCAAGAAACCCAAGCTGC  
TGAGATCTGGGACATGAGCGATGATGAGACCATCTGAGATGGCCCCGCTGTGGGGCTGACTTCTCCCTGGCCGCC  
TGCTGAGGAGCTCTCCATCGCCAGAGCAGGACTGCTGACCCAGGCTGGTGATTCTGGGCCCCCTCCTCCATACC  
CCGAGGTCTGGGATTCCTCCCTCTGCTGCCAGGAGTGGCCAGTGTTCCGGCGTTGCTCGGGATTCAAGATACCAC  
CAGTTCAGAGCTAAATAATAACCTTGGCCTTGGCCTTGCTATTGACCTGGGAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1063**

MAAATGDPGLSKLQFAPFSSALDVGFWHELTQKKLNEYRLDEAPKDIKGYYYNGDSAGLPARLTLEFSAFDMSAP  
TPARCCPAIGTLYNTNTLESFKTADKKLLLEQAANEIWESIKSGTALENPVLLNKFLLLTFADLKKYHFYYWFCY  
PALCLPESLEPLIQGPVGLDQRFSLKQIEALECAYDNLCQTEGVLTALPYFLIKYDENMVLVSLLKHYSDFQGGQRT  
KITIGVYDPCNLAQYPGWPLRNFLVLAHRWSSSFQSVEVVCFRDRTMQGARDVAHSIIFEVKLPEMAFSPDCPK  
AVGWEKNQKGGMGPRMVNLSECMDBKRLAESSVDLNLKLMCWRLVPTLDLDKVVSVKCLLLGAGTLGCNVARTLM  
GWGVRHITFVDNAKISYSNPVRQPLYEFEDCLGGGKPKALAAADRLQKIFPGVNARGFNMSIPMPGHPVNFSSVT  
LEQARRDVEQLEQLIESHDVVFLMDTRESRWLPVIAAASKRKLVINAAALGFDTFVVMRHGLKKPKQQGAGDLCP  
NHPVASADLLGSSLFANIPGYKLCYFCNDVVAPGDSTRDRTLDQQCTVSRPGLAVIAGALAVELMVSVLQHPEG  
GYAIASSSDDRMNEPPTSLGLVPHQIRGFLSRFDNVLPVSLAFDKCTACSSKVLDQYEREGFNFLAKVFNSHSF  
LEDLTGLTLLHQETQAAEIWDMSDDETI

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**FIGURE 1064**

TCTTCCTCGGCGCTGCCTACGGAGGTGGCAGCCATCTCCTTCTCGGCATCATGGCCGCCCTCAGACCCCTTGTGA  
AGCCCAAGATCGTCAAAAAGAGAACCAAGAAGTTCATCCGGCACCAGTCAGACCGATATGTCAAAAATTAAGCGTA  
ACTGGCGGAAACCCAGAGGCATTGACAACAGGGTTCGTAGAAGATTCAAGGGCCAGATCTTGATGCCCCAACATTG  
GTTATGGAAGCAACAAAAAACAAGCACATGCTGCCCAGTGGCTTCCGGAAGTTCCTGGTCCACAACGTCAAGG  
AGCTGGAAGTGCTGCTGATGTGCAACAAATCTTACTGTGCCGAGATCGCTCACAATGTTTCCTCCAAGAACCGCA  
AAGCCATCGTGGAAGAGCTGCCCAACTGGCCATCAGAGTCACCAACCCCAATGCCAGGCTGCGCAGTGAAGAAA  
ATGAGTAGGCAGCTCATGTGCACGTTTTCTGTTTAAATAAATGTAAAACTGCCATCTGGCATCTTCCTTC

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**FIGURE 1065**

MAALRPLVKPKIVKKRTKKFIRHQSDRYVVKIKRNWRKPRGIDNRVRRRFKGQILMPNIGYGSNKKTKHMLPSGFR  
KFLVHNVKELEVLLMCNKSYCAEIAHNVSSKNRKAIVERAAQLAIRVTNPNARLRSEENE

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**FIGURE 1066**

TCGGAGGAGCCAGCCGAAATCCTGCCGCTGCCCGGGACGAGGAGGAGGAGGAGGAAGAGGGGATCGAGCAGGGG  
CTGGAGGAGGAAGAAGAGGTGGATCCCCGGATCCAGGGAGAACTGGAGAAGTTAAATCAGTCCACGGATGATATC  
AACAGACGGGAGACTGAACCTTGAGGATGCTCGTCAGAAAGTTCCGCTCTGTTCTGGTTGAAGCAACGGTGAAACTG  
GATGAACCTGGTGAAGAAAATTGGCAAAGCTGTGGAAGACTCCAAGCCCTACTGGGAGGCACGGAGGGTGGCGAGG  
CAGGCTCAGCTGGAAGCTCAGAAAGCCACGCAGGACTTCCAGAGGGCCACAGAGGTGCTCCGTGCCGCCAAGGAG  
ACCATCTCCCTGGCCGAGCAGCGGCTGCTGGAGGATGACAAGCGGCAGTTTCGACTCCGCTGGCAGGAGATGCTG  
AATCACGCCACTCAGAGGGTCATGGAGGCGGAGCAGACCAAGACCAGGAGCGAGCTGGTGCATAAGGAGACGGCA  
GCCAGGTACAATGCCGCCATGGGCGCATGCGACAGCTGGAGAAGAACTCAAGAGAGCCATCAACAAGTCCAAG  
CCTTATTTTGAACCTCAAGGCAAAGTACTATGTGCAGCTCGAGCAACTGAAAAAGACTGTGGATGACCTGCAGGCC  
AACTGACCTTGGCAAAGGCGAGTACAAGATGGCCCTGAAGAACCTGGAGATGATCTCAGATGAGATCCACGAG  
CGGCGGCGCTCCAGTGCCATGGGGCCTCGGGGATGCGGTGTTGGTGTCTGAGGGCAGCAGCACATCTGTGGAGGAT  
CTGCCAGGGAGCAAACCTGAGCCTGATGCCATTTCTGTGGCCTCGGAGGCCTTTGAAGATGACAGCTGTAGCAAC  
TTTGTGTCTGAAGATGACTCGGAAACCCAGTCCGTGTCCAGCTTTAGTTCAGGACCAACAAGCCCGTCTGAGATG  
CCTGACCAGTTCCCTGCGGTTGTGAGGCCTGGCAGCCTGGATCTGCCAGCCCTGTGTCCCTGTGAGAGTTTGGG  
ATGATGTTCCAGTGTTGGGCCCTCGAAGTGAATGCAGCGGGGCCTCCTCCCTGAATGTGAAGTAGAACGAGGA  
GACAGGGCAGAAGGGGCAGAGAATAAAACAAGTGACAAAGCCAACAACAACCGGGGCCTCAGCAGTAGCAGTGGC  
AGTGGTGGCAGCAGTAAGAGCCAAAGCAGCACCTCCCCCTGAGGGCCAGGCCTTGAGAACCGGATGAAGCAGCTC  
TCCCTACAGTGCTCAAAGGGAAGAGATGGAATTATTGCTGACATAAAAATGGTGCAGATTGGCTGATTATCCTG  
GGCCCTGGCCGATGTGCATATCAACATTTATACATGGAACCTGGAGAACATTGTGCCAATAATCATTTAATATATG  
CCAAATCTTACACGTCTACTCTAAACTGCTCTAATGAAGTTTCAGTGACCTTGAGGGCTAAAGATTGTTCTTCTG  
GGTAAGAGCTCTTGGGCTGGTTTTTTCAGAGCAGAGTTCTTGTTGTGGGTAGACTGTGACTAGGTTACAGCCTTT  
GTGGAACATTCCGTATAACGGCATTGTGGAAGCAATAACTAGTTTCTATGAAAGAACCAGAGCTGGGAAGATGGC  
TGGGAAGCCAGGCCAAAGTGGGGGCAACAGCTTGCTTCTCTTCTCTCACCCTCAGTTTGTATGGGAAAATG  
GAGATGTCCTCTCCACTTTATCCACGATATCTAAATGAAAAAGAAAAGAAACCCACACACAAAGCAAAAACCTCA  
AGTATTAAGAGCACATATTTTTGACCCAGTGGAGGCTTAAAAAAGAGGTTTCAAGAACACAATTCATTTTTCAC  
CACCTCTGGTGTTCAGAGGGGGCTTTTTAAAAAGCGTGTATGCTGGGATACCCATTAAACCATTCTTAGAAGG  
CTACCATGAGCTGCATTTTTTGGGGTGGGAAAGGTGAATGCCAGTGGGGATGCGGGGGGATGAGGGTAGGAGGGA  
CTTATAGAAGGGGATTTGTGGCTGTGGGGGAGAAGGTTCTACAGCATAAGCCTTATCCTGCCAGCCAAGGGGATT  
TATTCTAAGAGAAGTGCATGTGAAGAATGGTTGCCACTGTTATTAGATTGACAAGATGTTAATTTCTCTGTAGGT  
TGTAACCTTTAAAAATAAATGAAATTATTTAAGGGTTATGCTGCACTAGTATTCCTTAGAGGAAACAGTTCTTTAA  
AGTTAGGAAAGGGAGTAGGCAGGCATGTGTTGGCAAAGGCTGTTAATAGTAGTTAAGTGTAAAGACTGCTTTTCT  
TTAACGTTTTTCATGGTAATGCATATTTAGAGCACTGTATTTTTGTCTTGTTAAGAAAATTTAGCATTTCTAAAAG  
AAAAAGCAACCCCTCTTTCAAACGTTAATCTGTACAGCCTGTATATTTAGTCATTTGTAAATCTCTTCATA  
CAATAGTGACTTCTTTTTTGAAGTATACAGTATCTTAATTACAAGGTTATTTGTACTTGTCTTAATACACTAAG  
TGTAATAAAAACGGCTTGAG

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**FIGURE 1067**

MEQGLEEEEEVDPRIQGELEKLNQSTDDINRRETELEDARQKFRSVLVEATVKLDELVKKIGKAVEDSKPYWEAR  
RVARQAQLEAQKATQDFQRATEVLRAAKETISLAEQRLLEDDKRQFDSAWQEMLNHATQRMVMEAEQTKTRSELVH  
KETAARYNAAMGRMRQLEKKLKRAINKSKPYFELKAKYYVQLEQLKKTVDLQAKLTLAKGEYKMAKNLEMISD  
EIHERRRSSAMGPRGCGVGAEGSSTSVEDLPGSKPEPDAISVASEAFEDDSCSNFVSEDDSETQSVSSFSSGPTS  
PSEMPDQFPVVRPGSLDLPSPVSLSEFGMMFPVLGPRSECSGASSPECEVERGDRAEGAENKTSKANNNRGLS  
SSSGSGGSSKSQSSTSPEGQALENRMKQLSLQCSKGRDGIADIKMVQIG



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**FIGURE 1068**

CATGGCAAAAGAACTCCCGGATAATCCGAATTCGTGGTCCTCAGAATTGGTTTAGGGTTGTTTCGCGGTTCTTCC  
CGTATTCTGCCTCCGAGGCCAGTGGGGCTGGCTGTGGGGTGAGTGCGCCTGGCCCTAGCCCTGCAGCCCCCTGT  
GCTGTTTGAGGCGTGAACTCACCTCAGGAAATGTATCTGATCCATTAGCGTGGATTTCATATTATTGGTGATGG  
AGAATCTTCAGCTGTGTTAAGTGTTACCGTCAGTTTCAGAGATGGCTTCTTTGCAAAGGAAAGGGCTGCAGGCAA  
GGATTCTCACCTCTGAAGAAGAGGAGAACTGAAAAGAGACCAAACCTTGGTGTCTGATTTTAAACAGCAGAAAT  
TGGAACAAGAGGCTCAGAAAAATTGGGATCTTTTTTACAAAAGAAATAGCACTAATTTCTTCAAAGACAGACACT  
GGACCACCAGAGAGTTTGAGGAGCTAAGATCATGTAGAGAGTTTGAAGATCAAAGTTAACAATGCTTGAAGCTG  
GCTGTGGGGTTGGAACTGTTTATTCCCACTTTTAGAAGAAGATCCGAATATCTTTGCCTATGCCTGTGATTTTT  
CTCCAAGAGCCATTGAATATGTTAAGCAAAATCCTTTATATGATACAGAAAGATGCAAGGTATTCCAGTGTGATC  
TGACTAAAGATGATCTTCTGGATCATGTACCGCCAGAGTCTGTGGATGTTGTTATGTTGATATTTGTGCTGTGACG  
CTGTTTCATCCTGATAAGATGCACCTTGTCTTACAAAACATTTACAAGGTATTAACCAGGCAAAAGTGTCTTGT  
TTCGTGACTACGGACTGTATGATCATGCCATGCTTAGGTTTAAAGCCAGCAGCAAACCTTGGAGAAAACTTTTATG  
TTAGACAAGATGGGACCAGATCATATTTTTTTACTGATGACTTCCTGGCTCAGCTCTTTATGGACACAGGTTATG  
AAGAAGTGGTAAACGAGTATGTGTTTCGAGAGACGGTGAATAAAAAAGAAGGCCTGTGTGTGCCAAGAGTTTTCC  
TTCAGAGCAAATTTCTAAAGCCTCCTAAGAACCCATCTCCTGTGGTCCTGGGCCTGGATCCTAAGTCCTGACCTT  
TCATGAGGTTGGCATTATACCTTCCCTTGAAGAGGAAAATTTAAAATCACTCTTTTCGTCTGGGTGCGGTGGCTC  
ATGCCTGTAATCCAGCACTTCGGGAGGCCGAGGTTGGGGGATCATCTGAGGTCAGGAGTTTGAGACCAGCCTGG  
CCAACATGGTGAGACCCCATCTCTACTAAAAATACAAAAAATTAGCTGGGCATAGTGGCGAGTGCCTGTAATCC  
CAGCTACTCAGGAGGCTGAGGCAAGAGAATCGCTTGAACCCAAGAGGCGGAGACTGCAGTGAGCCAAGATCATGC  
CATTGCACTCCAGCCTGGGCGACAGAGTGAGACCTGTTTCATAAATAAATAAAATCACTCTTTTACTTTATAT  
ATTTTTTGAGACAGGATCTTGTGGTACGCAGGCTGGAGTGCAGTGGTGTGTGATCACAGCTCATTGTAGCCTCGA  
CCTCCCCTGGGCTCAAGCAGTCTTCCTGCCTCAGCCTCCTGAGTAGCTAGGACTACAGGTGTAAGCCACCATGCC  
TGGCCCTTAATTTTTTTTTAATGAGCATGTACAGTAGTCCCGCTTTATCCATGGTTTCACTTACCACAATTTCAAT  
TACCTGTTTTCACTGCAGTCAGTTACTTTTCTTAAGATATTTTGAAGGTTATAGGCTCATGCCTATAACCCAG  
CACTTTGAGAGGCCAAGGCCAGCAGATCCCTTGAGCCAGGAGTTCAAGACCAGTGTGGGCAACATGGTGAAACT  
CTGTCTCTACAGAAAATACAAAATTAGCCAAATGTGGTGGCATGTGCCTGTAGTCCCAG

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**FIGURE 1069**

MASLQRKGLQARILTSEEEKLRDQTLVSDFKQKLEQEAQKNWDLFYKRNSTNFFKDRHWTTREFEELRSCRE  
FEDQKLTMLEAGCGVGNCLFPLLEEDPNIFAYACDFSPRAIEYVKQNPLYDTERCKVFQCDLTKDDLLDHVPPES  
VDVVMLIFVLSAVHPDKMHLVLQNIYKVLKPGKSVLFRDYGLYDHAMLRFKASSKLGENFYVRQDGTRSYFFTDD  
FLAQLFMDTGYYEEVVNEYVFRETVNKKEGLCVPRVFLQSKFLKPPKNPSPVVLGLDPKS

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**FIGURE 1070A**

GACAATGAAAAGCGAACCCCATTTGCACGCCGACGCTTACCTTGGAGATGCAGAAATCATTGAACTTCTTATTTTA  
TCTGGAGCTAGAGTTAATGCCAAAGACAGCAAATGGTTGACACCTTTACACAGAGCAGTTGCATCTTGTAGTGAG  
GAAGCAGTTCAGGTACTTTTGAAGCATTCTGCAGATGTTAATGCTCGAGACAAAAATTGGCAAACCCCTTTACAT  
ATAGCTGCTGCTAATAAAGCTGTAAAGTGTGCTGAAGCTTTGGTACCTCTTCTGAGTAATGTAAACGTATCTGAT  
CGAGCAGGGAGGACTGCATTACATCATGCAGCTTTCAGTGGACATGGTGAGATGGTCAAACCTACTCTTGTCTAGA  
GGTGCCAATATTAATGCTTTTGACAAGAAAGATAGGCGTGCTATCCATTGGGCAGCATATATGGGTCACATTGAA  
GTAGTGAAATTGCTTGTGTCGCATGGAGCTGAAGTGACATGCAAGGATAAAAAGTCTTATACACCTCTTCATGCA  
GCAGCCTCTAGTGGAATGATCAGCGTAGTCAAGTACCTTCTAGATCTTGGAGTTGATATGAATGAACCAAATGCC  
TATGGAATACACCTCTTCATGTAGCCTGCTATAATGGACAAGATGTTGTAGTGAATGAACTTATAGACTGTGGT  
GCTATTGTGAATCAAAAGAATGAAAAAGGATTTACTCCTTTGCACCTTTGCTGCTGCATCAACACATGGAGCATTG  
TGTTTAGAGCTTCTAGTTGGCAATGGGGCCGATGTCAATATGAAGAGTAAAGATGGGAAAACCCCACTACACATG  
ACTGCTCTCCACGGTAGATTCTCCCGATCACAAACCATTATCCAGAGTGGAGCTGTAATCGACTGTGAGGATAAG  
AATGGAATACCCCTTTGCACATAGCAGCACGGTATGGCCATGAGCTGCTGATCAACACTCTTATTACAAGTGGT  
GCTGACACTGCAAAGCGTGGCATAACATGGAATGTTCCCCCTCCATTTGGCAGCCTTAAGCGGCTTTTCAGATTGC  
TGCAGAAAACCTTCTTTCTTCAGGATTTGATATAGATACCCAGATGATTTTGGCAGGACTTGTCTACATGCAGCT  
GCAGCTGGAGGGAATTTGGAGTGCCTAAACCTTCTGCTGAATACTGGTGCAGACTTTAATAAAAAGGACAAATTT  
GGGAGATCTCCACTGCACTACGCTGCTGCCAAGTGAATTACAGTGCCTGTTTGTCTTGTGGGATCAGGAGCA  
AGTGTGAATGACCTTGATGAAAGAGGCTGCACACCCCTGCACTATGCAGCTACATCAGACACAGATGGCAAGTGC  
CTGGAATACTTTATTAAGAAACGATGCAATCCAGGGATCCGTGATAAGCAAGGATACAACGCAGTTCATTATTCA  
GCTGCTTATGGTCACCGTCTATGTCTTCAGCTGATTGCAAGTGAACCTCCTCTAGATGTTTTAATGGAAACCTCA  
GGAACAGACATGCTGAGTGATTAGATAATAGAGCAACAATAAGCCCTTTACACTTGGCTGCCTATCATGGTCCAC  
CATCAAGCACTGGAAGTGTGGTACAGTCTTTGTTAGATCTTGATGTCAGAAATAGTAGTGGAAAGAACCCCTA  
GATCTTGCAGCTTTTAAGGGCCATGTTGAATGTGTGGATGTACTCATTAAATCAGGGAGCCTCAATCTTAGTAAAA  
GATTACATTTTGAAGAGGACACCTATTATGCAGCAGCAACAATGGTCATTGAGAATGCTTACGGCTATTAATA  
GGAAATGCAGAACACAGAATGCAGTGGATATTCAAGATGGAAATGGACAGACGCCTCTGATGCTATCTGTTCTC  
AACGGGCACACAGACTGTGTTTACTCATTGCTGAACAAAGGAGCAAATGTAGATGCCAAAGATAAGTGGGGAAGG  
ACAGCGTTGCATAGAGGGGCGAGTTACAGGCCATGAAGAATGTGTAGATGCATTACTTCAACATGGTGTCTAAGTGC  
TTACTTCGGGATAGCAGGGGCGGACGCCTATACACCTGTCTGCTGCCTGTGGACACATTGGTGTCTTGGAGCC  
CTTTTGCAGTCAGCAGCATCTATGGATGCAAATCCAGCCACAGCAGACAATCATGGATATACGGCACTTCACTGG  
GCTTGCTACAATGGTTCAGAGACATGTGTAGAACTGCTTTTAGAACAGGAAGTTTTCCAGAAAACCGGAAGGAAAT  
GCTTTTAGTCCATTGCATTGTGCCGTGATAAATGACAACGAAGGTGCTGCTGAGATGTTAATTGATACATTAGGT  
GCCAGCATTGTGAACGCCACAGATTCAAAAGGAAGAACTCCTCTCCATGCAGCCGCCTTCACAGACCATGTAGAG  
TGTTTACAGCTGCTGCTCAGCCATAATGCTCAAGTCAATTCTGTGGACTCTACAGGGAAAACACCTCTTATGATG  
GCTGCAGAAAATGGACAAACAAATACAGTTGAGATGCTGGTTAGCAGTGCTAGTGCAGAACTGACTTTACAAGAT  
AACAGTAAAAATACTGCCCTCCATTTGGCTTGTAGCAAGGGTCATGAAACTAGTGCCTTGTTAATACTGGAAAAG  
ATAACAGATAGAAACCTCATCAATGCAACCAACGCAGCCTTGCAAACACCTCTGCATGTTGCTGCCCCGAAATGGG  
CTAACAAATGGTGGTTCAGGAACCTTTTGGGAAAAGGAGCAAGTGTGCTTGCAGTAGATGAAAATGGCTATACCCCA  
GCTTTGGCCTGTGCTCCCAATAAGGATGTGGCTGATTGCCTGGCTCTCATTTTGGCCACCATGATGCCTGTCTCA  
TCAAGTAGTCCCTTTATCATCTTAAACATTCAATGCCATTAAACCGTTATACCAACACCTCAAAAACAGTCAGCTTT  
GAAGCTTTGCCCATCATGAGGAATGAACCTAGCTCCTATTGCAGTTTCAATAACATTGGAGGGGAACAGGAGTAC  
TTATACACTGACGTGGATGAGCTCAACGACTCCGATTCTGAGACCTACTGAGAGGCTGAGGAGGAGGGAGTTCTC  
ACAGTAAAGCTTCAAACCTGTGCTTTTTTCAGGAAAAGGCACTTTGATATTACGTAGAAATTCACCTAAGAGGA  
AAGATCCCACAGTGAGCCAATGTTAAGAGATCTGATGGCATTAGGAGGAAGAGTTTTAAAGGCAAGTTTTACAAA  
AGGAACCTCTAGAATCTTGAAATAGACCTGACTGAGGAAAACACATTGATGTCAGAAATCTTTGTGGAATTGTTT  
AATTTGGTTTTGCAGTGCCAGGAACAATTGGGGACACTGTGCACTCTAACCTGCTTACACAAGCAACACTATTGT  
AACAGAAGAAATAAAGACACTAGATTTAAATTTTATCAATAAAATTACAACTAAATTTAAAGGCAATAAAAGTTT  
GGTACAGTAGGCATTATGTGCACAGCAAATTGCAAAAGGACCAATAAAGTAAAGGTTTTTTTAAATAAAATGCCA  
TTTTGTGGAACCTGGAGTAGATTAATGAAACATTACCTAAACCAAACTGCAATATTTCTGGAATGAAGCTGAG

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**FIGURE 1070B**

ATTGTTTAAATGTTGAGTTTTTTGGGTTTTGTTTTTTTTTAAAGAAAACATCTGAAAGCCTTCCAATGCTG  
TATTAAACCATGAGAGAAAGCAGATGTATTTTTACATTTTTTTCTTTTACAGAACTATTTCAAATTTCCAATTTT  
TATACTATTAGAATTA AAAACCAGCTGACTGGGTGCAATACGGGTGAAAATACTTGTGACATAGACATTGAGATG  
GATTGGGGTCAGGCTGTTGCCCTGTTTTGAATGGTTTTGGGTTTAAATAGTACTATTTTTGTTTGAAAATGTAA  
GAATTTCTAGAAAAAAATTCATGAAATCAAAAAGTAGACTATTTACCCCTATTGCAGCTAAGTGGTCCTGGGGC  
ATGGAGTCTTCAACCTCTCTATGAATGGCACACCTTAGTCACCTTATGTTACTTTTGTGTCCCCACCATGGGTTGG  
GGGATTTTTTTGTTTATTCTGATCTATGAGTTTTGAAAAAGTGAATAATCAAAAGGAAAATAATTCCTTGTGTTC  
ATAAATTAAGCATCACTAAAGTCTCTTGAAAGGCATTTCTGTATTGGGCAAGATTTAAATACTAAAGCCTTAGG  
TCCTATTCATATTTAAAGTAGCATGTTTGTAACCTGTTACTATTTGGAGAGAGAAGCAGTTGCCTGCCAAATTGA  
AGACTACCTTTCAAATAGCAAAAGAGAGAGAGAAGGCTGATATTTGGGCTTTTAAATAAAGATTTGTGTGGTTCT  
GCTTTTACTGTAACTGTCACTTTCCAGTGAAAATGATTTTCATATACATTGAGGGTCTTACAGGTATGGGTAAAG  
TTCTATAAATTGCAACAAAATGATACCCAATTTCAATTTATCCTTTTGTATTGTGAACTGGAACTTTATGAC  
ATTGTAAATTATCAGCTGGTTTTTCTGAATATAAAGTGTGAAAACACAGAACAGTATTTTGATCTATTTGATAAT  
TTTGTGGGTTTTTTGAAGAATTAATGAGCATGTACATAGAAATAGTGACTGCTTGAATACTGTATTTACTTGCAC  
TCTTTCAGTACATCAAGATTCCTGTATATTTTAGAGTATAATAAAACACAGATGTGAGTTGTATTTAATGAATAA  
TGTATTTGTATCTGTGCATATTATCTACAAATCTATAAAGTTTCTAGGGCATTGACTACTAGATTTTAAGCATTT  
TTTCTAAAATATTTACAGAAATTATAAATCTAATCCCCCATCTTTCTTTATAATATAAAGAAGTCATAATGAAC  
CCTTCCTAATTATTAGTAGTAGGAAGGTGAATATGCATTTTAATGACAGTGGACTACATTTTCTATTGTACCTTT  
TGAAAAAAAAAAAAATCAAGCAGATTCTAAAAGTATACATATGTGTGCTTTCTCTTTCTTTTAGGAATTCTCTT  
CTGAATTCCCTGAGGGAATTTCTAGAATCTCAGAATTGAAAGAGACCTGAGGTTTCATCCAGTCTCTAACCTCTT  
AACAAATGCAGGAGTCCCTTCTACAAGGGTGATCTTTCCACCTTGAACACTTCCAAGTGACTCTACCTCACCAAG  
CAGTCCATTCAAGTTGTTGAGCAGCTCTAACTGTTAGAAAGGTCTTCCCTTAGATGGAGTTGAAGCCTCCCTCCCGG  
TAACTTCGTCTTTGGGCTGCTGCTCCTCAAGAGAACCTGAGAAATGTTGGAAGGATGAATCTCGCACATT  
CTGCCATGTCTTCTCTTTTACAGGCTGTTTGACTTCTCTGCTGAAAGTGATTTCCAGAAGGACTCATTTGACACAC  
TATTAGATTTACCACATCTAATGAAATCCAAGGTGTAGCTATAAAGTGACAAGCTGTTTTTAATTTATCACATAC  
ACCAGAACTTCTATCCTGCATCACTTATATGTAAATGATGCTGTACCAAAAACATTAAGGTAGTTCTTGCGAAT  
GCCACCCCACTAAGAAAATATTTCAATTTTGTAAATCCATCTGTGAGAGTCTGCCCCCAGCTTAACCACTT  
CCTTTGGTCTGCACCAATGAAGGGAACCCCAAGTACTGTCTCAAATGGTATTTGAACTACG

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**FIGURE 1071**

MVKLLLSRGANINAFDKKDRRAIHWAAYMGHIEVVKLLVSHGA EVTCKDKKSYTPLHAAASSGMISVVKYLLDLG  
VDMNEPNAYGNTPLHVACYNGQDVVVNELIDCGAIVNQKNEKGFTPLHFAAASTHGALCLELLVGNGADVNMKSK  
DGKTP LHMTALHGRFSRSQTIIQSGAVIDCEDKNGNTPLHIAARYGHELLINTLITSGADTAKRGIHGMFPLHLA  
ALSGFSDCCRKLLSSGFDIDTPDDFGRTCLHAAAAGGNLECLNLLLNTGADFNKKDKFGRSPLHYAAANCNYQCL  
FALVSGSASVNDLDERGCTPLHYAATSDDGKCLEYLLRNDANPGIRDKQGYNAVHYSAA YGHRCLCLQLIASETP  
LDVLMETSGTDMLSDSNDRATISPLHLAAYHGHHQALEVLVQSLLDLVDVRNSSGRTPDLA AFKGHVECV DVLIN  
QGASILVKDYILKRTP IHAAATNGHSECLRL LIGNAEPQNAVDIQDGNGQTPLMLSVLNGHTDCVYSLLNKGANV  
DAKDKWGRTALHRGAVTGHEECVDALLQHGA KCLLRDSRGRTPIHLSAACGHIGVLGALLQSAASMDANPATADN  
HGYTALHWACYNGHETCVELLLEQEVFQKTEGNAFSPLHCAVINDNEGAAEMLIDTLGASIVNATDSKGRTP LHA  
AAFTDHVECLQLLLSHNAQVNSVDSTGKTPLMMAAENGQTNTVEMLVSSASAELTLQDNSKNTALHLACSKGHET  
SALLILEKITDRNLINATNAALQTPLHVAARNGLT MVVQELLGKGASVLAVDENGYPALACAPNKDVADCLALI  
LATMMPVSSSSPLSSLTFNAINRYTNTSKTVSFEALPIMRNEPSSYCSFNNIGGEQEYLYTDVDELNDSDSETY

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**FIGURE 1072**

CTTCCTGACAGCACACAACCTTGATTAGGAGGGGCTGGGAGGGAGGATCGATGAGCCCCTGACCCCTGGGTTCCTG  
AGGCTGCCAGGGTCGCTTGACAGCTCGGCCGCGTGGAGGTGACCGGGCGGAACCTCCGAGGGGGCGCGGGGAGAGCT  
GGGCGGGCCCCACCGCTCCAGCGGCTGCTGTCAGGGGCGCGAGGCTTTCCCTGAAGATGCAGCGTAGCATATTTT  
GCACATGAGTTTACAGAGGAAGAGGAAGTGTAGCCGGCGGACGCGCGGGCGGGCGGGCGGGGGCGCGTCCGGGGCTGG  
AGCCGGAGCGCGCCGGGCGCTGGGCGCAGCGAGCGAGAGCGCGGGCGGGCGGGCTCCGGCGAGGGACAGACGCA  
CCGATCGCCGGAGGGACAGACACACGACCACGCGGCGCCACCGCCACGCTCCACCCACCGGCGCCCAAGTCCT  
CCCCGCGCGCCTCCTCTGTATGGCACAACTTTCTCCCGGACGGAACACGCTGCCTCAGGGAGCCCGCGACC  
GCGCCTTCTCCTCCGCGGTCCCATACGCTGCTGAAATGGGTTCGGGATTGAACAAAGTTAGAGAAACGTGATGAA  
AAACGGCCTGGGAATATTTATTCAACTTTGAAGAGGCCTCAGGTGGAAACCAAGATAGATGTGTCTATGAATAC  
CGCTTCCTGGAGTTCACGACTCTGAGTGCTGCGGAGCTCCCTGGGTCTCAGCAGTGAGGCTGGCCTCCCTGCGT  
GACCTGCCCCGCCAGCTCCTGGAGCTGTACCAGCAGGGCTTCTCGCTGGCGGCCCTGCACCCCTTCGTGCAGCCC  
ACCCATGAGCGGGAGAAAGACGCCCCCTGGAGCACATCTTTAGAGCCATCCTGATCAAGAAAACCGACAGATCTCAG  
AAAATGATCTTCACAATGAAGGCTACATCTTGGAATTAGATTGCTGTTCTCCTTAGACCACCCGACAGACCAG  
AAACTCATCCAGAGTTTATTAAAGATCCAGGAGGCTGCAAGCCAGGGCCTGAAATTCGTTGGTGTATACCT  
CAGTACCATTCTCTGTGAACCTCGGCAGGCAGCAGTGCTCCGGTGTCTACTGCCAACAGCACCGAGGATGCCAGA  
GATGCAAAAAACGCACGTGGGGATCACGCGTCACTGGAGAATGAGAAACCGGGGACTGGGGATGTGTGCAGTGCT  
CCGGCTGGGAGAAACCAAGCCCAGAGCCCAGCTCAGGCCCCAGAGGGGAGGTGCCCTCGCCAAGCAGCCCAGC  
TCACCTCCGGAGAGGGAGATGGTGGAGAACCTTACCACAGGGGGTGAGCAAGACACTGGATGGACGGAGAGC  
AACCCCTTGAGGGTGATGAAGAGCCACTCTCAGGGAAAATGGAGATCTTACCCCTTTTCAACAAACCGAAGAGC  
CATCAGAAGTGCCGCAATACTACCCTGTACCATTCTCTCCATGTCTCCAAGAATGGCCAGACAGTGAGCGGT  
TTGGACGCCAACTGGTTAGAGCACATGAGCGACCACTTCCGAAAGGAGGCATGCTGGTGAACGCAGTCTTCTAC  
CTTGGAATAGTGAATGATTCTTACATGGCTTGACAGATGGAGTATTCTCTTGAAGCTGTTTCCACAGAAGAT  
AGCAAAACCATACAGGGCTATGATGCTATTGTGGTTGAACAATGGACAGTCTTGAAGGTGTGCAAGTGCAGACA  
GACTACGTGCCCCCTGCTGAACCTCGCTGGCGGCTATGGCTGGCAGCTCACCTGTGTGCTACCAACTCCCGTCGTC  
AAGACTACCAGCGAGGGGAGTGTATCCACCAAGCAGATTGTCTTTCTTACAGAGACCTTGTCTACCTCAGAAAATC  
AAGAAGAAGGAATCGAAGTTTCAAGTGGCGATTCTCCAGAGAAGAAATGCACAACAGGCAGATGAGGAAATCAAAA  
GGTAAACTCAGTGCCAGAGACAAACAACAGCAGAAGAAATGAGAAGAACTTAGAAGACCAGTCTTCCAAAGCT  
GGAGACATGGGAAACTGTGTTTCAAGACAGCAGCAGGAGGTGGAGTCTCCGAGGAGATGAAGGGCCCTGTCCAA  
GAGGACAAGGGAGAACAGCTGTCCCCTGGTGGCCTGCTGTGTGGGGTGGGTGTGGAGGGTGAGGCTGTGCAGAAT  
GGTCTTGCCAGCCACAGCAGGGCCCTGGTGGGGATTGCACTGGGCACTCCAATCCTGGAGAGGATGCCAGGGAC  
GGGGATGCTGAGGAAGTCAGAGAGCTTGGTACGGTTGAAGAAAATCAGTCTTGGGCAATTTGTGCTAAAACCTAG  
GTGAGTTGCCAAACCAAGGCATCTTACCAACAGCTGGTTTGGGGGCTGGTTTCCCTGGTGTGTGTGTACCTA  
CCCTTTGGCTTGGCTTGACCTCTCCTTGTGAGCTCACCTGAGCCCTCCCAGGGCCAGGTTCTGACAGTGTTGGT  
TTTTGCACATCCACTGGAAAGGTGTCATTAATGACCCAGTGTTAGAATGCAAGAGGTCAGGTTATTCTAGCCCTC  
ATGGCTGAAGGCCAGTCTTGCTCCACCCTCCTCCAGCCAGAGGGTCTGGACCATCCAGTGCCTGTCTCGCC  
ACAGGGCCTCCAGGGAGCATTCGGGTCAAATCCATGGACACCCTGGGCTACAAACCAAGGCTGCTGTTTCATCCCA  
CATCGTGTGGGCGAGTGTCCATCCCCTGCAGCTACTTGGTGACTTAACAACCTCCAGGAGCCCTGTCAGCTGCCCT  
CCTCCACCTAAACCCCTTCGACTCTTCTGCTTTGACAAAGAAAATGACATTGGGGAGGGGAGGTGCTCCGCTCC  
CAGCTTTTCTCAAAATAGTCTATAGATACTGGTAATCTGGAAATGAAGAAGTAATTCTGTCTCTGCACCTACTT  
TTGCAGAATGTTCAAGGAAGTATTCTGTGTTAGTATTAATGCCAAAAAGTTGTTTTAAAGGTTTTGTACTCAGC  
ACATCATACAAACCACATTACTTCTGTCACTTCAGGGCATCGGGACTGGCTGGCGCCCTTGTATGTGCTATTTT  
AATCAGTGTAACATTGGTCAAGTTGTTACCATGTATGCTGTGTTTATCATGTGTATATCGTCCAGAAAGTATTA  
AGGCTTTAGGTAGATGCAACTGGCGAACCTTGGAGAGGGAATGCTGATTGTCTTGACCAACCCACAGCCTGTCT  
CTTCTCTGTTTAGTTACTTACGGCAATAAATCATCTATGAGTT

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**FIGURE 1073**

MCCGLNKLEKRDEKRPNGNIYSTLKRQVETKIDVSYEYRFLEFTTTLSSAAELPGSSAVRLASLRDLPAQLLELYQQ  
GFSLAALHPFVQPTHEREKTPLEHIFRAILIKKTDRSQKTDLHNEGYLELDCCSSLDHPTDQKLIPEFIKKIQE  
AASQGLKFVGVIPQYHSSVNSAGSSAPVSTANSTEDARDAKNARGDHASLENEKPGTGDVCSAPAGRNQSPPESS  
GPRGEVPLAKQPSSPSGEGDGGELSPQGVSKTLDGPESNPLEVHEEPLSGKMEIFTLFNKPKSHQKCRQYYPVTI  
PLHVSKNGQTVSGLDANWLEHMSDHFRKGGMLVNAVFYLGIVNDSLHGLTDGVFIFEAVSTEDSKTIQGYDAIVV  
EQWTVLEGVEVQTDYVPLLNSLAAYGWQLTCVLPVVKTTSEGSVSTKQIVFLQRPCLPQKIKKKESKFQWRFS  
REEMHNRQMRKSKGKLSARDKQQAENEKNLEDQSSKAGDMGNCVSGQQQEGGVSEEMKGPVQEDKGEQLSPGGL  
LCGVGVEGEAVQNGPASHSRALVGICTGHSNPGEDARDGDAEEVRELGTVEEN

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**FIGURE 1074**

GCAATAGCACTAGAGTGCATCTATACCTGTGAACGAAATGATCAACTCTGTCTTTGCTATGACCTACTAGAATGT  
CTGCCAGAAAGAGGATATGGTGATAAGACAGAGGCAACCACAAAGCTTTCATGACATGGTAGACCAACTGGAACAA  
ATTCTCAGTGTGTGACAGCTTTTGGAAAAACATGGACTCGAGAAACCAATTTTCATTTGTTAAAAACACTCAATCT  
AGCTCAGAAGAGGCACGCAAGCTGATGGTTAGATTGACGAGGCACACTGGCCGGAAGCAGCCTCCTGTCAGTGAG  
TCTCATTGGAGAACGTTGCTGCAAGACATGTTAACTATGCAGCAGAATGTATACACATGTCTAGATTCTGATGCC  
TGCTATGAGATATTTACAGAAAGCCTTCTGTGCTCTAGTCGCCTTGAAAACATCCACCTGGCTGGACAGATGATG  
CACTGCAGTGCTTGTTTCAGAAAATCCTCCAGCTGGTATAGCCATAAAGGGAAACCCCACTACAGGGTCAGCTAC  
GAAAAGAGTATTGACTTGGTTTTGGCTGCCAGCAGAGAGTACTTCAATTCTTCTACCAACCTCACTGATAGCTGC  
ATGGATCTAGCCAGGTGCTGCTTACAACCTGATAACAGACAGACCCCTGCCATTCAAGAGGAGCTAGATCTTATC  
CAAGCCGTTGGATGTCTTGAAGAATTTGGGGTAAAGATCCTGCCTTTGCAAGTGCGATTGTGCCCTGATCGGATC  
AGTCTCATCAAGGAGTGTATTTCCAGTCCCCCACATGCTATAAACAATCCACCAAGCTTCTGGGCCTTGCTGAG  
CTGCTGAGGGTTGCAGGTGAGAACCCAGAAGAAAGCGGGACAGGTTCTAATCCTTTTAGTGGAGCAGGCACCTC  
GCTTCCATGACTACAAAGCAGCCAGTATGCATTGTCAGGAGCTGATGGCCACAGGTTATCCTAAAAGTTGGGATG  
TTTGTAGCCAGTTAGGACAATCAGAAGGTTACCAGGACTTGGCCACTCGTCAAGAGCTCATGGCTTTTGCTTTGA  
CACATTGCCCTCCTAGCAGCATTGAACTTCTTTTGGCAGCTAGCAGCTCTCTGCAGACAGAAATTCTTTATCAAA  
GAGTGAATTTCCAGATCCATCATGAAGGAGGGGAAAAATATCAGTGCTTCACCATTAACTAGTAAAGCAGTACAAG  
AGGATGAAGTAGGTGTTCCAGGTAGCAATTCAGCTGACCTATTGCGCTGGACCACTGCTACCACCATGAAAGTCC  
TTTCCAACACCACAACCACCACCAAAAGCGGTGCTGCAGGCCGTGCTGATGGGCAGTGGTGAAGAAGTCTTTAA  
CTTACCTTCGACCCCTTCAGGGGCAAAAATGTGGTGGTGCAATATCAAATCGGAACTACAGCCAATGAAGATCTAG  
AGAAACAAGGTGTATCCTTTTTATGAATCTGTATCTCAAATCCTTTTGTGCTGAGTCTGAAGGGACCTATG  
ACACCTATCAGCATGTTCCAGTGGAAGCTTTGCAGAAGTATTGCTGAGAACTGGAAAATTGGCAGAGGCTAAAA  
ATAAAGGAGAAGTATTTCCAACAACCTGAAGTTCTCTTGCAACTAGCAAGTGAAGCCTTGCCAAATGACATGACCT  
TGGCTCTTGCTTACCTTCTTGCTTACCACAAGTGTTAGATGCTAACCAGGTGCTTTGAAAAGCAGTCCCCCTCTG  
CATTATCTCTCCAGCTGGCAGCGTATTACTATAGCCTCCAGATCTATGCCCGATTGGCCCCATGTTTCAGGGACA  
AGTGCCATCCTCTTTACAGGGCTGATCCCAAAGAACTAATCAAGATGGTCACCAGGCATGTGACTCGACATGAGC  
ACGAAGCCTGGCCTGAAGACCTTATTTCACTGACCAAGCAGTTACACTGCTACAATGAACGTCTCTTGATTTC  
CTCAGGCGCAGATCCTTCAGGGCCTTCGGAAGGGTGTGGACGTGCAGCGGTTTACTGCAGATGACCAGTATAAAA  
GGGAAACTATCCTTGGTCTGGCAGAACTCTAGAGGAAAGCGTCTACAGCATTGCTATTTCTCTGGCACAACGTT  
ACAGTGCTCTCCGCTGGGAAGTTTTTATGACCCATTTGGAGTTCCTCTTCACGGACAGTGGTTTGTCCACACTAG  
AAATTGAAAATAGAGCCCAAGACCTTCATCTCTTTGAGACTTTGAAGACTGATCCAGAAGCCTTTTACCAGCACA  
TGGTCAAGTATATTTACCCTACTATTGGTGGCTTTGATCACGAAAGGCTGCAGTATTATTTCACTCTTCTGGAAA  
ACTGTGGCTGTGCAGATTTGGGGAACCTGTGCCATTAAACCAGAAACCCACATTGACTGCTGAAGAAGTTTAAGG  
TTGTTGCATCAGGTCTTAATTACAAAAGCTGACAGATGAAAACATGAGTCCTCTTGAAGCATTGGAGCCAGTTC  
TTTCAAGTCAAAAATATCTTGTCTATTTCCAAACTTGTTCCTCAAAATCCCTGAAAAGGATGGACAGATGCTTTCCC  
CAAGCTCTCTGTACACCATCTGGTTACAGAAGTTGTTCTGGACTGGAGACCCTCATCTCATTAAACAAGTCCCAG  
GCTCTTACCCGAGTGGCTTCATGCCTATGATGTCTGCATGAAGTACTTTGATCGTCTCCACCCAGGTGACCTCA  
TCACTGTGGTAGATGCAGTTACATTTTCTCCAAAAGCTGTGACCAAGCTGTCTGTGGAAGCCCGTAAAGAGATGA  
CTAGAAAGGCTATTAAGACAGTCAAACATTTTATTGAGAAGCCAAGGAAAAGAACTCAGAAGACGAAGCTCAAG  
AAGCTAAGGATTCTAAAGTTACCTATGCAGATACTTTGAATCATCTGGAGAAATCACTTGCCACCTGGAAACCC  
TGAGCCACAGCTTCATCCTTTCTCTGAAGAATAGTGAGCAGGAAACACTGCAAAAATACAGTCACCTCTATGATC  
TGTCCCGATCAGAAAAAGAGAACTTCATGATGAAGCTGTGGCTATTTGTTTAGATGGTCAGCCTCTAGCAATGA  
TTCAGCAGCTGCTAGAGGTGGCAGTTGGCCCTCTTGACATCTCACCCAAGGATATAGTGCAGAGTGAATCATGA  
AAATAATTTCTGCATTGAG



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**FIGURE 1075**

GCAGTACATTGAGCTCCATAGAGACAGCGCCGGGGCAAGTGAGAGCCGGACGGGCACTGGGCGACTCTGTGCCTC  
GCTGAGGAAAAATAACTAAACATGGGCAAAGGAGATCCTAAGAAGCCGAGAGGCAAAATGTCATCATATGCATTT  
TTTGTGCAAACCTTGTCGGGAGGAGCATAAGAAGAAGCACCCAGATGCTTCAGTCAACTTCTCAGAGTTTTCTAAG  
AAGCCCGTTATGAAAGAGAAATGAAAACCTATATCCCTCCCAAAGGGGAGACAAAAAGAAGTTCAAGGATCCCA  
ATGCACCCAAGAGGCTTCCTTCGGCCTTCTTCCTCTTCTGCTCTGAGTATCGCCCCAAAATCAAAGGAGAACATC  
CTGGCCTGTCCATTGGTGATGTTGCGAAGAACTGGGAGAGATGTGGAATAACACTGCTGCAGATGACAAGCAGC  
CTTATGAAAAGAAGGCTGCGAAGCTGAAGGAAAAATACGAAAAGGATATTGCTGCATATCGAGCTAAAGGAAAGC  
CTGATGCAGCAAAAAAGGGAGTTGTCAAGGCTGAAAAAAGCAAGAAAAAGAAGGAAGAGGAGGAAGATGAGGAAG  
ATGAAGAGGATGAGGAGGAGGAGGAAGATGAAGAAGATGAAGAAGAAGATGATGATGATGAATAAGTTGGTTGTA  
GCGCAGTTTTTTTTCTTGTCTATAAAGCATTTAACCCCCCTGTACACAATTCACCTTTTTTAAAGAAAAAAATTG  
AAATGTAAGGCGGTGTAAGATTTGTTTTTAACTGTACAGTGTCTTTTTTTGTATAGTTAACACACTACCGAATG  
TGTCTTTAGATAGCCCTGTCTGGTGGTATTTTCAATAGCCACTAAGTTTGCCTGGTACAGTATGGGGGTGTGTA  
ATTGGCATGGAAATTTAAAGCAGGTTCTTGTGGTGCCAGCACAAATTAGTTATATATGGGGATGGTAGTTTTT  
TCATCTTCAGTTGTCTCTGATGCAGCTTATACGAAATAATTGTTGTTCTGTAACTGAATACCACTCTGTAATTG  
CAAAAAAAAAAAGTTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTTATTA

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**FIGURE 1076**

CCTTTCCGTCTGGCGGCAGCCATCAGGTAAGCCAAGATGGGTGCATACAAGTACATCCAGGAGCTATGGAGAAAG  
AAGCAGTCTGATGTCATGCGCTTTCTTCTGAGGGTCCGCTGCTGGCAGTACCGCCAGCTCTCTGCTCTCCACAGG  
GCTCCCCGCCCCACCCGGCCTGATAAAGCGCGCCGACTGGGCTACAAGGCCAAGCAAGGTTACGTTATATATAGG  
ATTCGTGTTTCGCCGTGGTGGCCGAAAACGCCAGTTCCTAAGGGTGCAACTTACGGCAAGCCTGTCCATCATGGT  
GTTAACCAGCTAAAGTTTGCTCGAAGCCTTCAGTCCGTTGCAGAGGAGCGAGCTGGACGCCACTGTGGGGCTCTG  
AGAGTCCTGAATTCTTACTGGGTGGTGAAGATTCCACATACAAATTTTTTGAGGTTATCCTCATTGATCCATT  
CATAAAGCTATCAGAAGAAATCCTGACCCAGTGGATCACCAAACCAGTCCACAAGCACAGGGAGATGCGTGGG  
CTGACATCTGCAGGCCGAAAGAGCCGTGGCCTTGAAAGGGCCACAAGTTCACCACACTATTGGTGGCTCTCGC  
CGGGCAGCTTGGAGAAGGCGCAATACTCTCCAGCTCCACCGTTACCGCTTAATATAAGTAAAGTTTGTAATAATTCA  
TACTTAATAACAATTTAGGACAGTCATGTCTGCTTACAGGTGTTATTTGTCTGTTAAACTAGTCTGCAGATGT  
TTCTTGAATGCTTTGTCAAATTAAGAAAGTTAAAGTGCAATAATGTTTGAAGACAATAAGTGGTGGTGTATCTTG  
TTCTAATAAGATAAACTTTTTTGTCTTTGCTTTATCTTATTAGGGAGTTGTATGTCTAGTGTATAAAACATACTG  
TGTGGTATAACAGGCTTAATAAATCTTTAAAGGAGAGAACTGAACTAGCCCTGTAGATTTGTCTGGTGCATG  
TGATGAAACCTGCAGCTTTATCGGAGTGATGGCAATGCTCTGCTGGTTTATTTTCAAGTGGCTGCGTTTTTTTTTA  
GTTTGGCAGGTGTAGACTTTTTAAGTTGGGCTTTAGAAAATCTGGGTTAGCCTGAAGAAAATTGCCTCAGCCTCC  
ACAGTACCATTTTAAATTCACATAAAAGGTGAAAGCTCCTGGTTCAGTGCCATGGCTTCATGGCATTCAAGTGATT  
AGTGGTAATGGTAAACACTGGTGTGTTTTGAAGTTGAATGTGCGATAAAATTATTAGCCTTAAGATTGGTAAGCT  
AGCAATGAATGCTAGGGTGGGAAGCTGGTGAGCCAGTGGCCATTAGATAAATACCTTTCAAGTGTGAGCTTAGAC  
GTCAACCCTAAAATACTTAACCGTAATGCTAATTGTGATCATTATGAATCCCTTCAGTCACATTAGGGGGAAAGT  
AGTTGGCTATAAGTACGTCATTCTTAGTCCAGTCAGTCTTAAAAACATCTTGGGTTACCCACTCTGTCCACTCCC  
ATAGGCTACAGAAAAGTCACAAGCGCATGGTTTCCAACCATATGTGTTTTCTGCAGTTATTTCTCTTGTCTGG  
CCAAACAACCCTAAAAATCCTTACCATTCCACAAAGTTGGACCATCACTTGTGCACCCACTTTGACTATGAGTAT  
ACCACCACATTGCATTTCTGTTTGCACCATGTCTTCCAGGAGACTAGACTACTGTTGTCCAGGGTCAATTTGAGT  
GTAAAGAAAATGTAGACAAGGAATTGCCCAATTTTAAATCTGACTTTGCTGACTTAATTTAAATGCTCGTTCTG  
AACCAATTTTCTCCTATCTTCTCTAGGGGTTTCAAAAGACTCAGTTAATTGATTTCCAGGAAGTACTCATAGCAA  
GTTCATAAAAGTTCTTGAGACCTAAATTTCTTCAAAAAAAGAAAAGATCTTAAGTCATACATTTTAATTGTGT  
AGAGGTTGTTCAACTGAAGGAATAAATGTCTATTAACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1077**

MGAYKYIQELWRKKQSDVMRFLLRVRCWQYRQLSALHRAPRPTRPDKARRLG YKAKQGYVIYRIRVRRGGRKRPV  
PKGATYGKPVHHGVNQLKFARSLQSVAEERAGRHCALRVLNSYWVGEDSTYKFFEVLIDPFHKAIRRNPD TQW  
ITKPVHKKHREMRLTSAGRKSRLGKGHKFHHTIGGSRRAAWRRRNTLQLHRYR

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**FIGURE 1078**

GTGACAGAAGTAGTAGGAAGTGAGCTGTTTCAGAGGCAGGAGGGTCTATTCTTTGCCAAAGGGGGGACCAGAATTC  
CCCCATGCGAGCTGTTTGGAGACTGGGATGCCGAGAACGCGAGCGATCCGAGCAGGGTTTGTCTGGGCACCGTCCG  
GGGTAGGATCCGGAACGCATTTCGGAAGGCTTTTTGCAAGCATTACTTTGGAAGGAGAACTTGGGATCTTTCTGGG  
AACCCCCCGCCCCGGCTGGATTGGCCGAGCAAGCCTGGAAAATGGTAAATGATCATTGGATCAATTACAGGCTT  
TTAGCTGGCTTGTCTGTCATAATTCATGATTCCGGGCTGGGAAAAAGACCAACAGCCTACGTGCCAAAAAAGGGG  
CAGAGTTTGATGGAGTTGGGTGGACTTTTCTATGCCATTGCTCCACACCTAGAGGATAAGCACTTTTGCAGAC  
ATTCAGTGCAAGGGAGATCATGTTTGACTGTATGGATGTTCTGTCTAGTGAGTCCTGGGCAAAATCCTGGATTTCTA  
CACTGCGAGTCCGTCTTCTGTCATGCTCCAGGAGAAAGCTCTCAAAGCATGCTTCAGTGGATTGACCCAAACCGA  
ATGGCAGCATCGGCACACTGCTCAATCAATTGAAACACAGAGCACCAGCTCTGAGGAACCTCGTCCCAAGCCCCC  
ATCTCCACTTCCCTCCCCCTCGAGTGTAACCCCTGCTTCGTCTGCCAGGACAAATCATCAGGGTACCCTATGG  
GGTCAGCGCCTGTGAGGGATGTAAGGGCTTTTTCCGCAGAAGTATTCAGAAGAATATGATTTACACTTGTACCCG  
AGATAAGAACTGTGTTATTAATAAAGTCACCAGGAATCGATGCCAATACTGTCTGACTCCAGAAGTGCTTTGAAGT  
GGGAATGTCCAAAGAATCTGTTCAGGAATGACAGGAACAAGAAAAAGAGGAGACTTCGAAGCAAGAATGCACAGA  
GAGCTATGAAATGACAGCTGAGTTGGACGATCTCACAGAGAAGATCCGAAAAGCTCACCAGGAACTTTCCCTTC  
ACTCTGCCAGCTGGGTAAATACACCACGAATTCAGTGCTGACCATCGAGTCCGACTGGACCTGGGCCCTCTGGGA  
CAAATTCAGTGAACCTGGCCACCAAGTGCATTATTAAGATCGTGGAGTTTGCTAAACGTCTGCCTGGTTTCACTGG  
CTTGACCATCGCAGACCAAATTACCCTGCTGAAGGCCGCTGCCTGGACATCCTGATTCTTAGAATTTGCACCAG  
GTATACCCCAAGAACACAGACACCATGACTTTCTCAGACGGCCTTACCCTAAATCGAACTCAGATGCACAATGCTGG  
ATTTGGTCTCTGACTGACCTTGTGTTACCTTTGCCAACCAGCTCCTGCCTTTGGAAATGGATGACACAGAAAC  
AGGCCTTCTCAGTGCCATCTGCTTAATCTGTGGAGACCGCCAGGACCTTGAGGAACCGACAAAAGTAGATAAGCT  
ACAAGAACCATTGCTGGAAGCACTAAAAATTTATATCAGAAAAAGACGACCCAGCAAGCCTCACATGTTTCCAAA  
GATCTTAATGAAAATCACAGATCTCCGTAGCATCAGTGCTAAAGGTGCAGAGCGTGTAATTACCTTGAAAATGGA  
AATTCCTGGATCAATGCCACCTCTCATTCAAGAAATGCTGGAGAATTCTGAAGGACATGAACCTTGACCCCAAG  
TTCAAGTGGGAACACAGCAGAGCACAGTCTTAGCATCTCACCAGCTCAGTGGAACAGTGGGGTTCAGTCAGTC  
ACCCTCGTGCAATAAGACATTTTCTAGCTACTTCAAACATTTCCCGAGTACCTTCAGTTCCAGGATTTAAAAATGC  
AAGAAAAAACATTTTTACTGCTGCTTAGTTTTTGGACTGAAAAGATATTAAGTCAAGAAAGGACCAAGAAAGTTT  
TCATATGTATCAATATATATACTCCTCACTGTGTAACCTACCTAGAAATACAACTTTTCCAATTTTAAAAAATC  
AGCCATTTTCATGCAACCAGAACTAGTTAAAAGCTTCTATTTTCTCTTTGAACACTCAAGATTGCATGGCAAG  
ACCCAGTCAAAATGATTTACCCCTGGTTAAGTTTCTGAAGACTTTGTACATACAGAAGTATGGCTCTGTTCTTTC  
TATACTGTATGTTTGGTGCTTTTCTTTTGTCTTGCATACTCAAAATAACCATGACACCAAGGTTATGAAATAGAC  
TACTGTACACGTCTACCTAGGTTCAAAAAGATAACTGTCTTGCTTTTCATGGAATAGTCAAGACATCAAGGTAAGG  
AAACAGGACTATTGACAGGACTATTGTACAGTATGACAAGATAAGGCTGAAGATATTCTACTTTAGTTAGTATGG  
AAGCTTGTCTTTGCTCTTTCTGATGCTCTCAAACCTGCATCTTTTATTTTCATGTTGCCAGTAAAAGTATACAAAT  
TCCCTGCACTAGCAGAAGAGAATTCTGTATCAGTGTAACCTGCCAGTTCAGTTAATCAAATGTCATTTGTTCAATT  
GTTAATGTCACTTTAAATTAAGAGTGGTTTATTACTTGTTTAATGACATAACTACACAGTTAGTTAAAAAATTT  
TTTTTACAGTAATGATAGCCTCCAAGGCAGAAACACTTTTCAGTGTTAAGTTTTTGTCTTACTTGTTCACAAGCCA  
TTAGGGAAATTTTCATGGGATAATTAGCAGGCTGGTCTACCACCTGGACCATGTAACCTAGTGTCCTTCTGATT  
CATGCCCTGATATTGGGATTTTTTTTTTCCAGCCTTCTTGATGCCAAGGGGCTAATTAATATTAACAACTCCCAAAG  
AAACAGGCATAGAATCTGCCTCCTTTGACCTTGTTCATCACTATGAAGCAGAGTGAAAGCTGTGGTAGAGTGGT  
TAACAGATACAAGTGTGAGTTTCTTAGTTCTCATTTAAGCACTAGTGGAATTTTTTTTTTTGATATATTAGCAA  
GTCTGTGATGTAATTTTCACTGGCTCTGTTTGTACATTGAGATTGTTTGTGTTAACAATGCTTTCTATGTTTCATATA  
CTGTTTACCTTTTTTCCATGGAGTCTCCTGGCAAAGAATAAAATATATTTATTTT

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**FIGURE 1079A**

ATGGCCAAGTCGGGTGGCTGCGGCGCGGGAGCCGGCGTGGGCGGCGGCAACGGGGCACTGACCTGGGTGAACAAT  
GCTGCAAAAAAAGAAGAGTCAGAACTGCCAACAAAAATGATTCTTCAAAGAAGTTGTCTGTTGAGAGAGTGTAT  
CAGAAGAAGACACAACCTTGAACACATTCTTCTTCGTCCTGATACATATATTGGGTGAGTGGAGCCATTGACGCAG  
TTCATGTGGGTGTATGATGAAGATGTAGGAATGAATTGCAGGGAGGTTACCTTTGTGCCAGGTTTATACAAGATC  
TTTGATGAAATTTTGGTTAATGCTGCTGACAATAAACAGAGGGATAAGAACATGACTTGTATTAAAGTTTCTATT  
GATCCTGAATCTAACATTATAAGCATTGGAATAATGGGAAAGGCATTCCAGTAGTAGAACACAAGGTAGAGAAA  
GTTTATGTTCCCTGCTTTAATTTTGGACAGCTTTTAACATCCAGTAACTATGATGATGATGAGAAAAAAGTTACA  
GGTGGTCGTAATGGTTATGGTGCAAACTTTGTAATATTTTTCAGTACAAAGTTTACAGTAGAAAACAGCTTGCAAA  
GAATACAAACACAGTTTTAAGCAGACATGGATGAATAATATGATGAAGACTTCTGAAGCCAAAATTAACATTTT  
GATGGTGAAGATTACACATGCATAACATTCCAACCAGATCTGTCCAAATTTAAGATGGAAAACTTGACAAGGAT  
ATTGTGGCCCTCATGACTAGAAGGGCATATGATTTGGCTGGTTCGTGTAGAGGGGTCAAGGTCATGTTAATGGA  
AAGAAATTGCCTGTAAATGGATTTTCGCAGTTATGTAGATCTTTATGTGAAAGACAAATTGGATGAAACTGGGGTG  
GCCCTGAAAGTTATTCATGAGCTTGCAAAATGAAAGATGGGATGTTTGTCTCACATTGAGTGAAAAAGGATTCAG  
CAAATCAGCTTTGTAAATAGTATTGCAACTACAAAAGGTGGACGGCACGTGGATTATGTGGTAGATCAAGTTGTT  
GGTAACTGATTGAAGTAGTTAAGAAAAAGAACAAGCTGGTGTATCAGTGAAACCATTTCAGTAAAAAACCAT  
ATATGGGTTTTTATTAATTGCCTTATTGAAAAATCCAACTTTTGATTCTCAGACTAAGGAAAACATGACTCTGCAG  
CCCAAAGTTTTGGGTCTAAATGCCAGCTGTGCAAAAAATTTTTTAAAGCAGCCTCTAATTGTGGCATTGTAGAA  
AGTATCCTGAACTGGGTGAAATTTAAGGCTCAGACTCAGCTGAATAAGAAGTGTTTCATCAGTAAATACAGTAAA  
ATCAAAGGTATTTCCAAACTGGATGATGCTAATGATGCTGGTGGTAAACATTCCCTGGAGTGACACTGATATTA  
ACAGAGGGAGACTCTGCCAAATCACTGGCTGTGTCTGGATTAGGTGTGATTGGACGAGACAGATACGGAGTTTTT  
CCACTCAGGGGCAAAATTCTTAATGTACGGGAAGCTTCTCATAAACAGATCATGAAAATGCTGAAATAAATAAT  
ATTATTAATAAGTTGGTCTACAATATAAGAAAAGTTACGATGATGCAGAATCTCTGAAAACCTTACGCTATGGA  
AAGATTATGATTATGACCGATCAGGATCAAGATGGTTCTCACATAAAAGGCCTGCTTATTAATTTTCATCCATCAC  
AATTGGCCATCACTTTTGAAGCATGGTTTTCTTGAAGAGTTCATTACTCTATTGTAAAGGCAAGCAAAAAATAAG  
CAGGAACTTTCTTCTACAGTATTCTGAATTTGACGAATGGAAAAACATATAGAAAACCAGAAAGCCTGGAAA  
ATAAAGTACTATAAAGGATTGGGTACTAGTACAGCTAAAGAAGCAAAGGAATATTTTGCTGATATGGAAAGGCAT  
CGCATCTTGTTTAGATATGCTGGTCCTGAAGATGATGCTGCCATTACCTTGGCATTAGTAAGAAGAAGATTGAT  
GACAGAAAAGAATGGTTAACAAATTTTATGGAAGACCGGAGACAGCGTAGGCTACATGGCTTACCAGAGCAATTT  
TTATATGGTACTGCAACAAAGCATTGACTTATAATGATTTTCATCAACAAGGAATTGATTCTCTTCTCAAACCTCA  
GACAATGAAAGATCTATACCATCTCTTGTGATGGCTTTAAACCTGGCCAGCGGAAAGTTTTATTACCTGTTTTC  
AAGAGGAATGATAAACGTGAAGTAAAGTTGCCAGTTGGCTGGCTCTGTTGCTGAGATGTCGGCTTATCATCAT  
GGAGAACAAAGCATTGATGATGACTATTGTGAATTTGGCTCAGAACTTTGTGGGAAGTAACAACATTAACTTGCTT  
CAGCCTATTGGTCAGTTTGGAACTCGGCTTCATGGTGGCAAGATGCTGCAAGCCCTCGTTATATTTTACAATG  
TTAAGCACTTTAGCAAGGCTACTTTTTCTGCTGTGGATGACAACCTCCTTAAGTTCCCTTTATGATGATAATCAA  
CGTGTAGAGCCTGAGTGGTATATTCTTATAATTCCCATGGTTTTTAATAAATGGTGCTGAGGGCATTGGTACTGGA  
TGGGCTTGTAACCTACCCAATATGATGCTAGGGAAATTGTGAACAAATGTCAGACGAATGCTAGATGGCCTGGAT  
CCTCATCCCATGCTTCCAAACTACAAAACTTTAAAGGCACGATTCAAGAACTTGGTCAAACACAGTATGCAGTC  
AGTGGTGAAATATTTGTAGTGGACAGAAACACAGTAGAAATTACAGAGCTTCCAGTTAGAACTTGGACACAGGTA  
TATAAAGAACAGGTTTTAGAACCTATGCTAAATGGAACAGATAAAACACCAGCATTAAATTTCTGATTATAAAGAA  
TATCATACTGACACAACCTGTGAAATTTGTGGTGAAATGACTGAAGAGAACTAGCACAAGCAGAAGCTGCTGGA  
CTGCATAAAGTTTTTAACTTCAAACCTACTCTTACTTGTAATTCATGGTACTTTTTGATCATATGGGATGTCTG  
AAGAAATATGAACTGTGCAAGACATTCTGAAAGAATTCTTTGATTACGATTAAAGTTATTACGTTTTACGTAAG  
GAGTGGCTTGTGGGAATGTTGGGAGCAGAATCTACAAAGCTTAACAATCAAGCCCGTTTTATTTAGAGAAGATA  
CAAGGGAAAAATTACTATAGAGAATAGGTCAAAGAAAGATTTGATTCAAATGTTAGTCCAGAGAGGTTATGAATCT  
GACCCAGTGAAAGCCTGGAAAGAAGCACAAGAAAAGGCAGCAGAAGAGGATGAAACACAAAACCAGCATGATGAT  
AGTTCTCCGATTACAGGAACCTTCAGGCCAGATTTTAATTATATTTTAAATATGTCTCTGTGGTCTCTTACT  
AAAGAAAAAGTTGAAGAACTGATTAAACAGAGAGATGCAAAAGGGCGAGAGGTCAATGATCTTAAAGAAAAATCT  
CCTTCAGATCTTTGAAAGAGGATTTAGCGGCATTTGTTGAAGAACTGGATAAAGTGGAATCTCAAGAACGAGAA

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**FIGURE 1079B**

GATGTTCTGGCTGGAATGTCTGGAAAAAGCAATTAAAGGTAAAGTTGGCAAACCTAAGGTGAAGAACTCCAGTTG  
GAAGAGACAATGCCCTCACCTTATGGCAGAAGAATAATTCCTGAAATTACAGCTATGAAGGCAGATGCCAGCAAA  
AAGTTGCTGAAGAAGAAGAAGGGTGATCTTGATACTGCAGCAGTAAAGTGGAATTTGATGAAGAATTCAGTGA  
GCACCAGTAGAAGGTGCAGGAGAAGAGGCATTGACTCCATCAGTTCCTATAAATAAAGGTCCCAAACCTAAGAGG  
GAGAAGAAGGAGCCTGGTACCAGAGTGAGAAAAACACCTACATCATCTGGTAAACCTAGTGCAAAGAAAGTGAAG  
AAACGGAATCCTTGCTCAGATGATGAATCCAAGTCAGAAAGTGATTTGGAAGAAACAGAACCTGTGGTTATTCCA  
AGAGATTCTTTGCTTAGGAGAGCAGCAGCCGAAAGACCTAAATACACATTTGATTTCTCAGAAGAAGAGGATGAT  
GATGCTGATGATGATGATGATGATGACAATAATGATTTAGAGGAATTGAAAGTTAAAGCATCTCCCATAAACAAATGAT  
GGGGAAGATGAATTTGTTCTTCAGATGGGTTAGATAAAGATGAATATACATTTTCACCAGGCAAAATCAAAAGCC  
ACTCCAGAAAAATCTTTGCATGACAAAAAAGTCAGGATTTTGGAATCTCTTCTCATTTCCTTCATATTCTCAG  
AAGTCAGAAGATGATTCAGCTAAATTTGACAGTAATGAAGAAGATTCTGCTTCTGTTTTTTCACCATCATTGGT  
CTGAAACAGACAGATAAAGTTCCAAGTAAAACGGTAGCTGCTAAAAAGGGAACCGTCTTCAGATACAGTCCCT  
AAGCCCAAGAGAGCCCCAAAACAGAAGAAAGTAGTAGAGGCTGTAAACTCTGACTCGGATTCAGAATTTGGCATT  
CCAAAGAAGACTACAACACCAAAAGGTAAAGGCCGAGGGGCAAAGAAAAGGAAAGCATCTGGCTCTGAAAATGAA  
GGCGATTATAACCCTGGCAGGAAAACATCCAAAACAACGAAGCAAGAAACCGAAGAAGACATCTTTTGATCAGGAT  
TCAGATGTGGACATCTTCCCCTCAGACTTCCTACTGAGCCACCTTCTCTGCCACGAACCGGTCTGGGCTAGGAAA  
GAAGTAAATATTTTGCAGAGTCTGATGAAGAAGAAGATGATGTTGATTTTGCAATGTTTAATTAAGTGCCCCAAA  
GAGCACAAACATTTTCAACAAATATCTTGTGTTGTCCTTTTGTCTTCTGTCTCAGACTTTTGTACATCTGGC  
TTATTTTAATGTGATGATGTAATTGACGGTTTTTTATTATTGTGGTAGGCCTTTTAACATTTTGTCTTACACAT  
ACAGTTTTATGCTCTTTTTTACTCATTGAAATGTCACGTACTGTCTGATTGGCTTGTAGAATTGTTATAGACTGC  
CGTGCATTAGCACAGATTTTAATTGTCATGGTTACAACTACAGACCTGCTTTTTGAAATGAAATTTAAACATTA  
AAAATGGAACCTGTG

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**FIGURE 1080**

MAKSGGCGAGAGVGGGNGALTWVNNAAKKEESETANKNDSSKKLSVERVYQKKTQLEHILLRPDTYIGSVEPLTQ  
FMWVYDEDEVGMNCREVTFVPGLYKIFDEILVNAADNKQRDKNMTCIKVSIDPESNIISIWNNGKIPVVEHKVEK  
VYVPALIFGQLLTSSNYDDDEKKVTGGRNGYGAKLCNIFSTKFTVETACKEYKHSFKQTWMNNMMKTSEAKIKHF  
DGEDYTCITFQPDLSKFKMEKLDKDIVALMTRRAYDLAGSCRGVKVMFNGKKLPVNGFRSYVDLYVKDKLDETGV  
ALKVIHELANERWDVCLTLSEKGFQQISFVNSIATTKGGRHVDYVVDQVVGKLIIEVVKKKNKAGVSVKPFQVKNH  
IWFINCLINPTFDSQTKENMTLQPKSFGSKQLSEKFFKAASNCGIVESILNWVKFKAQTQLNKKCSSVKYSK  
IKGIPKLDDANDAGGKHSLECTLILTEGDSAKSLAVSGLGVIGRDRYGVFPLRGKILNVREASHKQIMENAEINN  
IIKIVGLQYKKSYYDDAESLKTTRYGKIMIMTDQDQDGSNIKGLLINFIIHNNWPSLLKHGFLEEFITPIVKASKNK  
QELSFYSIPEFDEWKKHIENQKAWKIKYYKGLGTSTAKEAKEYFADMERHRILFRYAGPEDDAAITLAFSKKKID  
DRKEWLTNFMEDRRQRRLHGLPEQFLYGTATKHLTYNDFINKELILFSNSDNERSIPSLVDGFKPGQRKVLFTCF  
KRNDKREVKVAQLAGSVAEMSAYHHGEQALMMTIVNLAQNFVGSNNINLLQPIGQFGTRLHGKDAASPRYIFTM  
LSTLARLLFPAVDDNLLKFLYDDNQERVEPEWYIPIIPMVLINGAEGIGTGWACKLPNYDAREIVNNVRMLDGLD  
PHPMLPNYKNFKGTIQELGQNQYAVSGEIFVVDNRNTEITELPVRTWTQVYKEQVLEPMLNGTDKTPALISDYKE  
YHTDTTVKFVVKMTEEKLAQAEAAGLHKVFKLQTTLTCSNMVLFDHMGCLKKYETVQDILKEFFDLRLSYGLRK  
EWLVGMLGAESTKLNNQARFILEKIQGKITIENRSKDLIQMLVQRGYESDPVKAWKEAQEKAAEEDDETQNQHDD  
SSSDSGTPSGPDFNYILNMSLWLTKEKVEELIKORDAKGREVNDLKRKSPSDLWKEDLAAFVEELDKVESQERE  
DVLAGMSGKAIKGVGKPKVKKLQLEETMPSPYGRRIIPEITAMKADASKLLKKKKGDLDTAAVKVEFDEEFSG  
APVEGAGEEALTPSVPINKGPKPKREKKEPGTRVRKPTTSSGKPSAKKVKKRNPWSDESSESLEETEPVVIF  
RDSLLRRAAAERPXYTFDFSEEDDDADDDDDNDLEELKVKASPIITNDGEDEFVPSDGLDKDEYTFSPGSKA  
TPEKSLHDKKSQDFGNLFSFPSYSQKSEDDSAKFDSNEEDSASVFSFSFGLKQTDKVPSTVAACKGKPSSTVP  
KPKRAPKQKKVVEAVNSDSEFGIPKKTTPKPKGRGAKKRKASGSENEGDYNPGRKTSKTTSKPKKTSFDQD  
SDVDIFPSDFPTEPPSLPRTGRARKEVKYFAESDEEEDDVDFAMFN

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**FIGURE 1081**

GAGAAGGCCCCAGGAAGTGACGGCCGCCCTCCCGGCTACCGGGGACTTCTGGAGTCCGAGAAGTCAACGGCGCGGTT  
GCTGCGGGCCGCGCGCTCCCCGGCCCGAGGCGATGGAGAACGGAGCGGTGTACAGCCCCACTACGGAGGAGGACC  
CGGGCCCCCGCCAGAGGCCCGGAGCGGCTCGCTGCCCTACTTTTTTCATGGGCGGGCTCCCATTTGCTCCGGCGCG  
TTCTCAAGGGCTTGCAGCTGTTGCTGTCTCTGCTGGCCTTCATCTGTGAAGAAGTTGTATCACAATGTACTTTAT  
GTGGAGGACTTTATTTTTTTGAGTTTGTAAAGCTGCAGTGCCTTTCTTCTGAGTCTCCTTATACTGATTGTGTATT  
GCACTCCATTTTATGAGAGAGTTGATACCACAAAAGTAAAATCATCGGATTTTTATATTACTTTGGGAACAGGAT  
GTGTGTTTTTGTGGCATCCAATCATTTTGTTCACACATGACAGGACTTCAGCTGAGATTGCTGCAATTGTGT  
TTGGATTTATAGCAAGTTTTATGTTCCCTACTTGACTTTATCACTATGCTGTATGAAAAACGACAGGAGTCCCAGC  
TGAGAAAACCTGAAAATACCACTAGGGCTGAAGCCCTCACTGAGCCACTTAATGCCCTAAAGACTCTGGGGAGCAG  
ATGTTACCTAAGGTAGTGACCCCTGCATTGTGGTGCCTGAGCCCTGGCAGAAGCTCTTGTAATAATTTGTTAATTGT  
TTAAACCACTTCTTTTGGAGAGCAAGGGGAAGGTCAAGAAGGCAGTTTTATCAATATTGTGTGTCAGTCACCACAAA  
GTAGGCCAGATAAGTTAAAAAAATTTTTTTTTAAATAATAATTGAACTTATCTCAAATGGAGATTTTGGTGGG  
AGGAGGAGAAAACAATTGTTTTTAAATCACACAGCTCAACGGTTGATAAATGATTCTGTCAATTCTGTTACAGGTC  
ATTCTTTTACTAGGCTTAGCTTCCAAATTATGCTTTATAGCTGTATAAACATCGTGATTATATTCATCTACTTAG  
AAATTGTTTTATTTTTTAAATTAATTTGCTTAGCTGTTTGTGTTGATGCTTAGATTATGTTCTGTTAATGGGAATT  
TAACATATTTAAGAAACCAATATTTAAATGTTGGTCTAGGTTTTTTTCCCTTAACATATATTACCAGGCTTTACT  
GTATTTCACTCAGCCTTAAATGTTATAATATTTTTGGATAACGGTTATTAATTCTTTGAGACCTTCGTATAGCCT  
ATAAAATGTATGGGAGATGTTGGTATTTTATGTGTATAAAAGCAACAATATCAGCAACTTCGTGTTTATACTGCA  
CCTTGTTGTTGATGTCAAGTAAAAAAAAGATTGTTTTGTAACACATAAAAAAATGGAAGAACTGATACCACAC  
CTAAGGACCAAAGATAAGAAAGACTTTTTTGCCCAAGACAGTGAAAGTAATTATAAAAAACAAGCTTTGACCACTTA  
CCAAGTATCTGAAGAGATGAGTTCACTATGATTTAGAAAGTGTTTCGATTCCCCTGTTGGCATATGATTATTT  
TTACTAAAATTAATACAGCTCTGTGGGTCTTCCTTAGTGTTTTCTTTGAAGCCAATCTGTTTTTTTTTAGGACACC  
AGCCTTTGGTTTTTTCATCTGTTTCGAGATGCCTCTTCTGTCTCCTTATCAGATAGAAATGGAGTCATGTGCTGC  
TGCTTCATCTAGCAGAGGTTGGCCTCTGGCTCTGACACTTTTTGTGAGTTGTCTTTAGGTGGTCCTGAATCTTGG  
GCCCTTTTGATTGTGAATACTGTGTAGCAGGATCTTGAGAGTCCTTGTTCTTACATAGGCATTGCTCTAGTTTGT  
CTTTGGCAAAAAAAAAAAAAAAAAAAAAA



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**FIGURE 1082**

MENGAVYSPTTEEDPGPARGPRSGLAAYFFMGRPLPLRRVLKGLQLLLSLLAFICEEVVSQCTLCGGLYFFEFVS  
CSAFLLSLLILIVYCTPFYERVDTTKVKSSDFYITLGTGCVFLLASIIFVSTHDRTSAEIAAIVFGFIAFMFLL  
DFITMLYEKRQESQLRKPEPNTTTRAEALTEPLNA

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**FIGURE 1083**

ATG G A T G C T G T G T G C T A T G G T G A A G C T G T T T C T T C C C A G C A G C A G G G A G A G A A A A G G A G A A G A G G A A A C A C A A G  
A A G A A A T G C G T G G T G C A G A G C C T C A A T T C C T A C T T C A T G G A T G T G A A A T G C C C A G G A T G C T A T A A A A T C A C T A C A  
G C A G T T T C T A A T T C C T G C A A T T T T C C C C T T A A T G G C T C T C C G G A T G T T G C C A C T G A T T A T G G T G C C G T T C A T G G C  
T C T T C A G C A G G T G C T G G G C A T A G G C A C C A G G A A G C C C T G T T T A A T A G T G T G T C T G C C T T T C C T T T A C A T G C T C C C  
T C G G G T G A A G C A A G G C A G A T G G A G A A G G C T T T A G C A G A C A G C G T G G G C A T G T T T C C A A G C C C T C A G G C T G C T G A G  
C A C A A T G C C G A T G C C A G C A C C A A C A G G C T G A G G T G G C T T C T T C A T T T T A G

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**FIGURE 1084**

MDAVCYGEAVSSQQQGEKKEKRKHKKKCVVQSLNSYFMDVKCPGCKYKITTAVSNSCNFPLNGSPDVATDYGAVHG  
SSAGAGHRHQEALFNSVSAFPLHAPSGEARQMEKALADSVGMFPSPQAAEQQCRCQHQQAEVASSF

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**FIGURE 1085**

GCTAAAGGTGATGTGGCCGCCCTCAACCGACGCATCCAGCTCGTTGAGGAGAAGTTGGACAGGGCTCAGGAAAGA  
CTGGCCACGGCCCCGCAGAAGCTGGAGGAGGCAGAAAAAGCTGCAGATGAGAGTGAGAGAGGAATGAAGGTGATA  
GAAAACCGGGCCATGAAGGATGAGGAGAAGATGGAAATTCAGGAGCTGCAGCTCAAAGAGGCCAAGCACATTGCCG  
GAAGAGGCTGACCGCAAATACTGGGAGGTAGCTCGTAAGCTGGTCTTCCTGGAGGGTGAGCTGGAGAGGGCAGAG  
GAGCGTGTGGAGGTGTCTGAACTAAAAATGTGGTGACCTTGAAGAAGAAGCTCAAGAATGTTACTAACAATCTGAAA  
TCTCTGGAGGCTGCGTCTGAAAAGTATTCTGAAAAGGAGGACAAATGTGAAGAAGAAATTAACTTCTGTGTGAC  
AACTGAAAGAGGCTGAGACCCGTGCTGAATTTGCAGAGAGAACGGTTGCAAACTGGAAAAGACAATTGATGAC  
CTGGAAGAGAACTTGCCAGGCCAAAGAAGAGAACGTGGGCTTACATCAGACACTGGATCAGACACTAAACGAG  
CTTAAGTGTATATAAGCAAAACAGAAGAGTCTTGTTCACAGAACTCCGGAGCTCCGTGGGTCTTTCTCTTCT  
CTTGTAAGAAGTTCCTTTTGTATTGCCATCTTCGCTTTGCTGGAAATGTCAAGCAAATTATGAATACATGACCA  
AATATTTTGTATTGGAGAAGCTTTGAGCACGAGTTAAATCTCATGCCTTCCCTTTTTTTGTCAAATGGCACCAAC  
TTTTTCAGCTCTCTTATTTTTTCTTAAGTTGCATTTATTCCTAAGGTAGGCAGGGTATTTCTAGTAAGCATAG  
TTTCTTAAGACAGAGGCCATTTGGTTCCTGGGAGAATAGGCAGCCCCACACTTTGAAGAACACAGACCCCAAGTAT  
CTAGTCGTGGATATGATTAAAACGCTGAAGACCACAACCTTTTGGGTCAACTGTTGGTCAAATATAGGAGAGAC  
CAGGGACCACCCCACTCCTATTTATTCAGCACCACACTACCCAGGAAATACACTAGCAAATTGTGCAATGGAATA  
AAATCCACACTTTACTTTAGATTCTTGCAACTGTATCATATGTAATAGTATCACTTTTTTCTACATTTTGGTCAAA  
TAAATTTTTACATAAACTAC

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**FIGURE 1086**

AGCTCATCCACACTTCCAATCACTTTCCGGAGTGCTTCCCCTCCCTCCGGCCCGTGCTGGTCCCGACGGCGGGCC  
TGGGTCTCGCGCGCGTATTGCTGGGTAAACGGGCCTTCTCCCGCGTCGGCCCGGCCCTCCTGCCTCGGCTCGTCC  
CTCCTTCCAGAACGTCCCGGGCTCCTGCCGAGTCAGAAGAAATGGGACTCCCTCCGCGACGTGCCCGGAGCAGCT  
CCCTTCGCTGTGGAAGCGGCGGTGTCTTCGAAGAAACCGGAAGCCCGTGGTGACCCCTGGCGACCCGGTTTGT  
TCGGTCCGTTTCCAAACACTAAGGAATCGAACTCGGCGGCCTTGGGGGCGGCCCTACGTAGCCTGGCTTCTGGT  
TGTCATGGATGCACCTGGTAGAAGATGATATCTGTATTCTGAATCATGAAAAAGCCATAAGAGAGATACAGTGAC  
CCCAGTTTCAATATATTAGGAGATGAATCTGTTGCTTCCCATTTTGCTCTTGTCACCTGCATATGAAGACATCAA  
AAAACGACTTAAGGATTCAGAGAAAGAGAACTCTTGTAAAGAAGAGAATAAGATTTTGAAGAAAAGCTAAT  
AGCTCGATTTGAAGAAGAAACAAGTTCCGTGGGACGAGAAACAAGTAAATAAGGCCTATCATGCATATCGAGAGGT  
TTGCATTGATAGAGATAATTTGAAGAGCAAACTGGACAAAATGAATAAAGACAACCTCTGAATCTTTGAAAGTATT  
GAATGAGCAGCTACAATCTAAAGAAGTAGAACTCCTCCAGCTGAGGACAGAGGTGGAAGCTCAGCAGGTGATGAG  
GAATTTAAATCCACCTTCATCAAACTGGGAGGTGGAAAAGTTGAGCTGTGACCTGAAGATCCATGGTTTGAACA  
AGAGCTGGAAGCTGATGAGGAAAGAATGTAGCGATCTCAAAATAGAACTACAGAAAGCCAAACAAACGGATCCATA  
TCAGGAAGACAATCTGAAGAGCAGAGATCTCAAAAACTAAGCATTTCAGTGATAATATGCAGCATGCATACTG  
GGAAGCTGAAGAGAGAAATGTCTAATTTACATCTGGTGACTCAAGTACAAGCTGAAGTACTAAGAAAAGTGAAGAC  
CTCAACTGCAATCAAGAAAGCCTGTGCCCCTGTAGGATGCAGTGAAGACCTTGAAGAGACAGCACAAAAGTGA  
CTTGATGAATTTTACTGCAACATACACAAGACATCCCCCTCTCTTACCAAATGGCAAAGCTCTTTGTACATACCAC  
ATCTTCCCCCTTACCAGGAGATGTAAAGGTTTTATCAGAGAAAAGCAATCCTCCAATCATGGACAGACAATGAGAG  
ATCCATTCCATATGATGGTACATGCTTTCAGGAACACAGTTCTTATGGCAGAAATTCTCTGGAAGACAATTCCTG  
GGTATTTCCAAGTCCTCCTAAATCAAGTGAGACAGCATTGGGGAAACTAAAAGTAAAGTAAAGTAAAGTAAAGTAAAG  
CCTTCCACCACTGCATTACTTGGATCAACATAATCAGAACTGCCTTTATAAGAATTAATTTGGAAGAGATTACG  
ATTTACCATGAGGACACTTATCTCTTTCAGTGCTCCTCCCAAGAAATTATTTAACAAGTGAAGGAGATTTTG  
ATTAAGATTTTGCAGAGGTCTTCAGTATCTATATTTGAACACACTGTACAATAGTACAAAACCAACATAGTTGG  
TTTTCTAGTATGAAAGAGCACCTCTAGCTCCATATTCTAAGAATCTGAAATATGCTACTATACTAATTAATAAG  
TAACTTAAGGTGTTTTAAAAAACTCTGCCTTCTATATTAATTGTAAATTTTGCCTCTCAGAAGAATGGAATTGG  
AGATTGTAGACGTGGTTTTACAAAATGTGAAATGTCTAAATATCTGTTTCAAAAAATAAAGGAAAACATGTTTC  
TTCAAATTGCATAATGGAACAAATGGCAATGTGAGTAGGTTACATTTCTGTTGTTATAATGCGTAAAGATATTGA  
AAATATAATGAAATAAAGCATCTTAGGTTATACCATCTTTATATGCTATTGCGTTTCAATATTTAAGATTTAAA  
GTGATTTTTTGGTCACAGTGTTTTGTTGATAAAATTTTTTAGAATTGAAGTTTGAATTTAAGACTTGAAACAA  
CCTGATCATTGAAGCCAACCTTGTCCCAGCACATTCTTAAGTCCTAATTGGGAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1087**

MDALVEDDICILNHEKAHKRDTVTPVSIYSGDESVASHFALVTAYEDIKKRLKDSEKENSLLKKRIRFLEEKLIA  
RFEEETSSVGREQVNKAYHAYREVCIDRDNLSKLDKMNKDSESLKVLNEQLQSKEVELLQLRTEVETQQVMRN  
LNPPSSNWEVEKLSCDLKIHGLEQELELMRKECSDLKIELQKAKQTDPTYQEDNLKSRLQKLSISSDNMQHAYWE  
LKREMSNLHLVTQVQAELLRKLTSTAIKKACAPVGCSEDLGRDSTKLHLMNFTATYTRHPPLPNGKALCHTTS  
SPLPGDVKVLSEKAILQSWTDNERSIPNDGTCFQEHSSYGRNSLEDNSWVFPSPPKSSETAFGETKTKTLPLPNL  
PPLHYLDQHNQNCLYKN

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**FIGURE 1088**

GCGATGGAGCCGGGGCGCCGGGGGGCCGCGGCGCTGCTAGCGCTGCTGTGCGTGGCCTGCGCGCTGCGCGCCGGG  
CGCGCCCAATACGAACGCTACAGCTTCCGCAGCTTCCACGGGACGAGCTGATGCCGCTCGAGTCGGCCTACCGG  
CACGCGCTGGACAAGTACAGCGGCGAGCACTGGGCCGAGAGCGTGGGCTACCTGGAGATCAGCCTGCGGCTGCAC  
CGCTTGCTGCGCGACAGCGAGGCCTTCTGCCACCGCAACTGCAGCGCCGCGCGCAGCCCCGAGCCCCGCCGGC  
CTCGCCAGCTATCCCGAGCTGCGCCTCTTCGGGGGCTGCTGCGCCGCGCGCACTGCCTCAAGCGCTGCAAGCAG  
GGCCTGCCAGCCTTCCGCCAGTCCCAGCCCAGCCGCGAGGTGCTGGCGGACTTCCAGCGCCGCGAGCCCTACAAG  
TTCTTGCACTTCGCTTACTTCAAGGCAAATAATCTCCCCAAAGCCATCGCCGCTGCTCACACCTTTTCTACTGAAG  
CATCTGATGACGAAATGATGAAGAGGAACATGGCATATTATAAGAGCCTGCCTGGTGCCGAGGACTACATTAAA  
GACCTGGAACCAAGTCATATGAAAGCCTGTTTCATCCGAGCAGTGCGGGCATAACAACGGTGAGAACTGGAGAACA  
TCCATCACAGACATGGAGCTGGCCCTTCCCGACTTCTTCAAAGCCTTTTACGAGTGTCTCGCAGCCTGCGAGGGT  
TCCAGGGAGATCAAGGACTTCAAGGATTTCTACCTTTCCATAGCAGATCATTATGTAGAAGTTCTGGAATGCAAA  
ATACAGTGTGAAGAGAACCTCACCCAGTTATAGGAGGCTATCCGGTTGAGAAATTTGTGGCTACCATGTATCAT  
TACTTGCACTTTGCCTATTATAAGTTGAACGACCTGAAGAATGCAGCCCCCTGTGCAGTCAGCTATCTGCTCTTT  
GATCAGAATGACAAGGTCATGCAGCAGAACCTGGTGTATTACCAGTACCACAGGGACACTTGGGGCCTCTCGGAT  
GAGCACTTCCAGCCCAGACCTGAAGCAGTTCACTTCTTTAATGTGACCACACTCCAGAAGGAGCTGTATGACTTT  
GCTAAGGAAAATATAATGGATGATGATGAGGGAGAAGTTGTGGAATATGTGGATGACCTCTTGGAAGTGGAGGAG  
ACCAGCTAGCCACAGCAACCAAAGAGACTTCCTCTTGCGGTTGAGGAAACACAGATTCTTTGTCCTTTTCCCAA  
CAGCCCAGGCTGTTGATACCTCAGAGCCTTCTCTTTACTCTCCAAAGTGAAAGGGAAGCCCCGCTCTCTCTAACT  
GCATGTCATCAGGGGTGAGCCTGCCTTTCTTATCTTACACCTGCCACCTCATGTTACACCTATCTTTCTCACC  
TTTTTTTTGAGATGGAGTCTCGCTCTCTTGCCAGGCTGGAGTGCAATGGCACGTTCTCAGCTCACTGCAACCTC  
CGCCTCTTGGGTTCAAGCAATCTGCTGCATCAGCCTCCCGAGTACCTGGGATTACAGGCATGTGCCACCACGCC  
CGGCTAATTTTGTATTTTGTAGTAGAGACGGGGTTTTGCCATGTTGGCCAGGCTGGTCTCGAACTCTTGACTTCAG  
ATGATCCATCTGCCTTGGCCTCCACAGTGCTGGGATTACAGGCGTGAGCCACCATGCCCGGCCTCTTTCTCACC  
TTTACACCTGTCTTCTTATCTCACATCTGTTTTACACCTTCATCCCTGTCTTCTCATGTTACACTTGTCTT  
CCCCATGTTTCATAGCTGCCTTTCTTACCATTTTGGTTTGAAGGGCAGTCTTCTCTGGCTTGTTTTTTTGTTC  
CCAGAAAATCAGTATTATTTTTTAAATAAGAAAAACATTCTAGAGATGATAATTGTGAAAACCTCCTTTGGCT  
TATTTGCTTTTCCAGATTTTAGTCTCCTTTCTCCCCATCCGGGAAAGATGGTGGAAGACATAGGCTAAATTTCTC  
CAGCCTCACAAATGGTCTTCACTTGGTCTGACTTGTACCAATTCTAGCACCCACTGAAAAACAAGTTGAGTAGAGA  
GTGTAGAGTGCAGAAATGTGGCTTTTGCCCCACTTTGCATCTCCAAAATTACAACGGTTGGCCGATCCCATTGGA  
GGACAATGCTTAGTTATAAGTCTCCGAGTTGGAAAAGGAAGAAAGCCAGAGCTGTCTAGTTTTCATTTCATTCTTC  
AGTAAATATTTATTGAGT

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**FIGURE 1089**

GAATTCGGGCGCGAAGCGGCCGGCCTGGGCGCCGACTGCAGAGCCGGGAGGCTGGTGGTCA**ATG**CCGGGGTTTCCTG  
GTTTCGCATCCTCCTTCTGCTGCTGGTTCTGCTGCTTCTGGGCCCTACGCGCGGCTTGCGCAATGCCACCCAGAGG  
ATGTTTGAAATTGACTATAGCCGGGACTCCTTCCTCAAGGATGGCCAGCCATTTTCGCTACATCTCAGGAAGCATT  
CACTACTCCCGTGTGCCCCGCTTCTACTGGAAGGACCGGCTGCTGAAGATGAAGATGGCTGGGCTGAACGCCATC  
CAGACGTATGTGCCCTGGAACTTTCATGAGCCCTGGCCAGGACAGTACCAGTTTTCTGAGGACCATGATGTGGAA  
TATTTTCTTCGGCTGGCTCATGAGCTGGGACTGCTGGTTATCCTGAGGCCCGGGCCCTACATCTGTGCAGAGTGG  
GAAATGGGAGGATTACCTGCTTGGCTGCTAGAGAAAGAGTCTATTCTTCTCCGCTCCTCCGACCCAGATTACCTG  
GCAGCTGTGGACAAGTGGTTGGGAGTCCCTTCTGCCCAAGATGAAGCCTCTCCTCTATCAGAATGGAGGGCCAGTT  
ATAACAGTGCAGGTTGAAAATGAATATGGCAGCTACTTTGCCTGTGATTTTGACTACCTGCGCTTCCTGCAGAAG  
CGCTTTCGCCACCATCTGGGGGATGATGTGGTTCTGTTTACCAGTATGGAGCACATAAAACATTTCCTGAAATGT  
GGGGCCCTGCAGGGCCTCTACACCACGGTGGACTTTGGAACAGGCAGCAACATCACAGATGCTTTCCTAAGCCAG  
AGGAAGTGTGAGCCCAAAGGACCCCTTGATCAATTCTGAATTCTATACTGGCTGGCTAGATCACTGGGGCCAACCT  
CACTCCACAATCAAGACCGAAGCAGTGGCTTCCTCCCTCTATGATATACTTGGCCGTGGGGCGAGTGTGAACCTG  
TACATGTTTATAGGTGGGACCAATTTTGCCTATTGGAATGGGGCCAACCTACCCTATGCAGCACAGCCACCAGC  
TACGACTATGATGCCCCACTGAGTGAGGCTGGGGACCTCACTGAGAAGTATTTTGCTCTGCGAAACATCATCCAG  
AAGTTTGAAAAAGTACCAGAAGGTCCTATCCCTCCATCTACACCAAAGTTTGATATGGAAAGGTCACCTTGAA  
AAGTTAAAGACAGTGGGAGCAGCTCTGGACATTCTGTGTCCCTCTGGGGCCATCAAAGCCTTTATCCCTTGACA  
TTTATCCAGGTGAAACAGCATTATGGGTTTGTGCTGTACCGGACAACACTTCCTCAAGATTGCAGCAACCCAGCA  
CCTCTCTCTTACCCCTCAATGGAGTCCACGATCGAGCATATGTTGCTGTGGATGGGATCCCCAGGGAGTCCTT  
GAGCGAAACAATGTGATCACTCTGAACATAACAGGGAAAGCTGGAGCCACTCTGGACCTTCTGGTAGAGAACATG  
GGACGTGTGAACATATGGTGCATATATCAACGATTTTAAGGGTTTGGTTTCTAACCTGACTCTCAGTTCCAATATC  
CTCACGGACTGGACGATCTTCCACTGGACACTGAGGATGCAGTGCGCAGCCACCTGGGGGGCTGGGGACACCGT  
GACAGTGGCCACCATGATGAAGCCTGGGCCCACAACCTCATCCAACCTACACGCTCCCGGCCCTTTTATATGGGGAAC  
TTCTCCATTCCCAGTGGGATCCCAGACTTGCCCCAGGACACCTTTATCCAGTTTCCTGGATGGACCAAGGGCCAG  
GTCTGGATTAATGGCTTTAACCTTGCCCGCTATTGGCCAGCCCGGGGCCCTCAGTTGACCTTGTTTGTGCCCCAG  
CACATCCTGATGACCTCGGCCCCAAACACCATCACCGTGCTGGAACTGGAGTGGGCACCCTGCAGCAGTGATGAT  
CCAGAACTATGTGCTGTGACGTTTCGTGGACAGGCCAGTTATTGGCTCATCTGTGACCTACGATCATCCCTCCAAA  
CCTGTTGAAAAAAGACTCATGCCCCACCCCCGCAAAAAAACAAGATTTCATGGCTGGACCATGTAT**TGAT**GATGA  
AAGCCTGTGTCTTTGAGGGATTCTACCCTGAACATACCTCACAGATCCTCCCTGTCATGCCACATTTCACTGATT  
GGAATGTGGAAATGGAAAAGGAATTTAGGATGTGCATTTTACCTGAGGTTTCCCTGCATCCCTGCAGTGCCAAA  
GCCCCACCTTCAGGGACCACCTGGAATGTGTGAGGGGCTGACAGCACAGTAACGTGCATACATATCTGCAGGGCT  
GGAATGGAAAGCTTTAAAGGTGGTAGTGATTTTTATTTTGAAGAATCATGTTACCTTTTTGTAAATAAAATTTG  
CCCGAATTC



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**FIGURE 1090**

MPGFLVRILLLLLVLLLLGPTRGLRNATQRMFEIDYSRDSFLKDGQPFRIYSGSIHYSRVPRFYWKDRLLKMKMA  
GLNAIQTYVPWNFHEPWPGQYQFSEDHDVEYFLRLAHELGLLVILRPGPYICAEWEMGGLPAWILLEKESILLRSS  
DPDYLAAVDKWLGVLPLPKMKPLLYQNGGPVITVQVENEYGSYFACDFDYLRFLQKRFRHHLGDDVVLFTTDGAHK  
TFLKCGALQGLYTTVDFTGSGNITDAFLSQRKCEPKGPLINSEFYTGWLDHWGQPHSTIKTEAVASSLYDILARG  
ASVNLVYMFIGGTNFAYWNGANSFYAAQPTSVDYDAPLSEAGDLTEKYFALRNIIQKFEKVPEGPIPPSTPKFAYG  
KVTLEKLKTVGAALDILCPSPGPIKSLYPLTFIQVKQHYGFVLYRTTLQDCSNPAPLSSPLNGVHDRAYVAVDGI  
PQGVLERNNVITLNI TGKAGATLDLLVENMGRVNYGAYINDFKGLVSNLTLSSNILDWTIFPLDTEDAVRSHLG  
GWGHRDSGHHDEAWAHNSSNYTLPAFYMGNFSIPSGIPDLQDTFIQFPGWTKGQVWINGFNLGRYWPARGPQLT  
LFVPQHILMTSAPNTITVLELEWAPCSSDDPELCAVTFVDRPVIGSSVTYDHPSPKPVKRLMPPPPQKNKDSWLD  
HV

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**FIGURE 1091**

CGCAGGCGGAGCGCAAGTCTGTCTAGCCAGTCAGTCCGCCAGTCCGCCAGCCCAGTACCTCTCTCTCCTCGGCCCT  
CGTAAGCTGTCCGCGGTCTGTTTTGGCCCGAACGGCGGCGGAGGCGCTGATC**ATGG**CGACATTTCATCTCGGTGCAG  
CTGAAAAAGACCTCAGAGGTGGACCTGGCCAAGCCGCTGGTGAAAGTTCATCCAGCAGACTTACCCAAGCGGCGGG  
GAAGAGCAGGCCCAGTACTGCCGCGCGGCGGAGGAGCTCAGCAAGCTGCGCCGCGCCGAGTCCGGTTCGTCCGCTG  
GACAAGCACGAGGGCGCGCTCGAGACGCTCCTGAGATATTATGATCAGATTGTTCTATTGAACCCAAATTCCCA  
TTTTCTGAAAATCAGATCTGCTTGACATTTACCTGGAAGGATGCTTTTCGATAAAGGTTCACTTTTTTGGAGGCTCT  
GTAAACTGGCTCTTGCAAGCTTAGGATATGAAAAAGAGCTGTGTGTTGTTCAATTGTGCAGCCTTAGCTAGCCAA  
ATTGCAGCAGAACAGAACCTGGATAATGATGAAGGATTGAAAATCGCTGCTAAACATTACCAGTTTGCTAGTGGT  
GCCTTTTTACATATTAAAGAGACGGTTTTATCTGCCTTAAGTCGAGAGCCGACCGTGGACATATCTCCAGATACT  
GTTGGGACCCCTCAGTCTTATTATGCTGGCACAGGCTCAAGAAGTATTTTTTTTTAAAAGCCACAAGAGATAAAATG  
AAAGATGCCATCATAGCTAAATTGGCTAATCAGGCTGCAGATTATTTTGGTGATGCTTTCAAACAGTGTCAATAC  
AAAGATACTCTCCCCAAGGAGGTGTTCCCTGTCTTGGCTGCAAAGCACTGTATCATGCAGGCCAATGCTGAGTAC  
CATCAGTCTATCCTGGCAAAACAGCAGAGAAGAAATTTGGAGAAGAAATGCAAGGTTACAGCATGCAGCAGAACTG  
ATTAACAGTGGCATCTCGCTATGATGAATATGTTAATGTGAAGGATTTTTCTGACAAAATCAATCGTGCCCTT  
GCTGCAGCAAAGAAGGATAATGACTTCATTTATCATGATCGAGTTCAGACCTTAAAGATCTAGATCCTATTGGC  
AAAGCCACACTTGTGAAATCTACCCCGGTCAATGTACCCATCAGTCAGAAATTTACTGATCTGTTTGAGAAGATG  
GTTCCCGTGTGAGTACAGCAGTCTTTGGCTGCCTATAATCAGAGGAAAGCCGATTGTTGTTAACAGATCAATTGCT  
CAGATGAGAGAAGCCACCCTTTGGCAAATGGGGTGCTAGCTTCCCTTAATCTTCCAGCAGCAATTGAAGATGTG  
TCTGGAGACACTGTACCTCAGTCTATATTGACTAAATCCAGATCTGTGATTGAACAGGGAGGCATCCAGACTGTT  
GATCAGTTGATTAAAGAAGTGCCTGAATTACTGCAACGAAATAGAGAAATCCTAGATGAGTCATTAAGGTTGTTG  
GATGAAGAAGAAGCAACCGATAATGATTTAAGAGCAAAATTTAAGGAACGTTGGCAAAGGACACCATCCAATGAA  
CTGTATAAGCCTTTAAGAGCAGAGGGAACCAACTTCAGAACAGTTTTAGATAAAGCTGTGCAGGCAGATGGACAA  
GTGAAAGAATGTTACCAGTCTCATCGTGACACCATCGTGCTTTTGTGTAAGCCAGAGCCTGAGCTGAATGCTGCC  
ATCCCTTCTGCTAATCCAGCAAAGACCATGCAGGGCAGTGAGGTTGTAAATGTCTTAAATCCTTATTGTCAAAAT  
CTTGATGAAGTAAAGAAGGAAAGAGAGGGTCTGGAGAATGACTTGAAATCTGTGAATTTTGACATGACAAGCAAG  
TTTTTGACAGCCCTGGCTCAAGATGGTGTGATAAATGAAGAAGCTCTTTCTGTTACTGAACTAGATCGAGTCTAT  
GGAGGTCTTACAATAAGTCCAAGAATCTCTAAAGAAAACAGGAGGGACTTCTTAAAAATATTTCAGGTCTCACAT  
CAGGAATTTTCAAAAATGAAACAATCTAATAATGAAGCTAACTTAAGAGAAGAAGTTTTGAAGAATTTAGCTACT  
GCATATGACAACCTTTGTTGAACCTGTAGCTAATTTGAAGGAAGGCACAAAGTTTTACAATGAGTTGACTGAAATC  
CTGGTCAGGTTCCAGAACAATGCAGTGATATAGTTTTTGCACGGAAGACAGAAAGAGATGAATCTTAAAGGAC  
TTGCAACAAAGCATTGCCAGAGAACCTAGTGCTCCTTCAATTCCCTACACCTGCGTATCAGTCTCACAGCAGGA  
GGACATGCACCAACTCCTCCAACCTCCAGCGCCAAGAACCATGCCGCCTACTAAGCCCCAGCCCCAGCCAGGCCT  
CCACCACCTGTGCTTCCAGCAAATCGAGCTCCTTCTGCTACTGCTCCATCTCCAGTGGGGGCTGGGACTGCTGCG  
CCAGCTCCATCACAAACGCCTGGCTCAGCTCCTCCTCCACAGGCGCAGGGACCACCCTATCCCACCTATCCAGGA  
TATCCTGGGTATTGCCAAATGCCCATGCCCATGGGCTATAATCCTTATGCGTATGGCCAGTATAATATGCCATAT  
CCACCAGTGTATCACAGAGTCTTGACAGGCTCCATACCCGGGACCCCAGCAGCCTTCATACCCCTTCCCTCAG  
CCCCACAGCAGTCTTACTATCCACAGCAG**TAA**TATGTCTGCTCAGCAGCTCAGCTGATTTCAGATCAGAGGGAAA  
GAAATACCAACCCTGCAATAAGTGTACTAACTCTACGCTCTGGTTAATGTAATGTACTCTCCTGGACTGAATGC  
AGTGATAATTTCTGTCTACAGCTAGAAGCTGTGCCCCAGTCCACATTTGATTACACATGTGAGATTTGCTGCT  
GTTGCAGTATAAACACTAGGTATAATAGGATTTGAAATTGCATTACAGTTTCATAAAAATTGAAAATGAGAAATTA  
AACCTGCAAGTGAAACATTTGAAACGATTATACTTTCTACATAAGACATGGTTGGGACATCAGATACTTACAAAG  
ATGGTTAAGTATGGATACTAGAGAAAATTAAGTTTTCTTCTCTTTGGTTTATTGATTGGTTAATTTCCATT  
ATGCTATTTTGCATAATCAAGGCACTGTAAATCTTATAATTTTAAATAAATTACTTAAGAAC

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**FIGURE 1092**

MATFISVQLKKTSEVDLAKPLVKFIQQTYP SGGEEQAQYCRAAEELSKLRRAAVGRPLDKHEGALETLLRYYDQI  
CSIEPKFPFSENQICLTFTWKDAFDKGSIFGGSVKLALASLGYEKSCVLFNCAALASQIAAEQNLDNDEGLKIAA  
KHYQFASGAFLHIKETVLSALSREPTVDISPDTVGTLSLIMLAQAQEVFFLKATRDKMKDAIIAKLANQAADYFG  
DAFKQCQYKDTLPKEVFPVLAAKHCIMQANA EYHQSI LAKQKKFGEEIARLQHAAELIKTVASRYDEYVNVKDF  
SDKINRALAAAKKDNDFIYHDRV PDLKDLDPIGKATLVKSTPVNVPISQKFTDLFEKMVPVSVQQSLAAYNQKA  
DLVNRSIAQMREATTLANGVLASLNLPA AIEDVSGDTPVQSILTKSRSVIEQGGIQTVDQLIKELPELLQRNREI  
LDESLRLLDEEEATDNDLRAKFKERWQRTPSNELYKPLRAEGTNFRTVLDKAVQADGQVKECYQSHRDTIVLLCK  
PEPELNAAIP SANPAKTMQGSEVVNLKSILLSNLDEVKKEREGLNDLKS VNFDMTSKFLTALAQDGVINEEALS  
VTELD RYVGGLTTKVQESLKKQEGLLKNIQVSHQEF SKMKQSNNEANLREEVLKNLATAYDNFVELVANLKEGTK  
FYNELTEILVR FQNKCS DIVFARKTERDELLKDLQQSIAREPSAPS IPTPAYQSSPAGGHAPTPTPTAPRTMPPT  
KPQPPARPPPPVL PANRAP SATAPSPVGAGTAAPAPSQT PGSAPPPQAQGPPYPTYPGYPGYCQMPMPMGYNPYA  
YGQYNMPYPPVYHQSPGQAPYPGPQQPSY PFPQPPQQSYYPQQ

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**FIGURE 1093A**

TTGGCCCGTGCCTGGGGCTGGGGTGGAGGGCGGGACAGAGGGGCTGGGCCAGGCAAAGCTTCTGTCGCTGCTGC  
TGCGGAGGCCGAGGACAGGACGTGGGCTGGGCCGGGCAGTGCCGACTCGGAGGAGCAGGAGGCGAGGTCCGCCG  
GAGCTCTGAACCCCCGCTGCTCTGCCGCGCGGTGACCCGCGCCCCGCGCCGTCCGACCCGTGGCTGTTCCGAG  
ACGATTGGTGGGGGCGCGGCGGCGGCGGCGGCTGTTGGGGTGGGGAGACGCGCGGCGAGGAGACGAGCGAG  
GTCAGCGAGTTTGGAGGAGGACCGGAGCCGCTGCCGCCGTCATGTCGAAGACTCGAGCGCCCTGCCCTGGTCC  
ATCAACAGGGACGATTACGAGCTGCAGGAGGTGATCGGGAGTGGAGCAACTGCTGTAGTCCAAGCAGCTTATTGT  
GCCCCATAAAAAGGAGAAAGTGGCAATCAAACGGATAAACCTTGAGAAATGTCAAAC TAGCATGGATGAACTCCTG  
AAAGAAATTCAAGCCATGAGTCAATGCCATCATCCTAATATTGTATCTTACTACACATCTTTTGTGGTAAAAGAT  
GAGCTGTGGCTTGTTCATGAAGCTGCTAAGTGGAGGTTCTGTTCTGGATATTATTAAGCACATTGTGGCAAAAGGG  
GAACACAAAAGTGGAGTCTTAGATGAATCTACCATTGCTACGATACTCCGAGAAGTACTGGAAGGGCTGGAATAT  
CTGCATAAAAATGGACAGATCCACAGAGATGTGAAAGCTGGAAACATTCTTCTTGGAGAAGATGGCTCAGTACAG  
ATTGCAGACTTTGGGGT TAGTGCTTTTTTAGCAACTGGTGGTGATATTACCCGAAATAAAGTGAGAAAGACCTTT  
GTTGGCACCCCTTGTGGATGGCACCTGAAGTTATGGAACAGGTCCGTGGTTATGATTTCAAAGCTGATATTTGG  
AGTTTGGAAATTACAGCAATTGAATTGGCTACAGGGGCGGCTCCTTATCATAAATATCCACCAATGAAGGTTTTA  
ATGCTGACACTGCAGAACGATCCTCCTTCTTTGGAACTGGTGTTCAGATAAAGAAATGCTGAAAAAATATGGA  
AAATCATTTAGAAAAATGATTTTATTGTGCCTTCAAAAAGATCCAGAAAAAGACCAACAGCAGCAGAACTATTA  
AGGCACAAATTTTCCAGAAAGCAAAGAATAAAGAAATTTCTTCAAGAAAAAACATTGCAGAGAGCACCAACCATT  
TCTGAAAGAGCAAAAAGGTTCCGAGAGTACCAGGTTCCAGTGGGCGTCTTCATAAGACAGAGGATGGAGGCTGG  
GAGTGGAGTGATGATGAATTTGATGAAGAAAGTGAGGAAGGGAAAGCAGCAATTTCACAACTCAGGTCTCCCCGA  
GTGAAAGAATCAATATCAAATTTCTGAGCTCTTTCCAACAACCTGATCCGTGGGTACTTTGCTCCAAGTTCCAGAA  
CAGATCTCTGCTCATCTACCTCAGCCAGCTGGGCAGATTGCTACACAGCCAACCTCAAGTCTCTCTCCACCCACC  
GCAGAGCCAGCAAAAACAGCTCAGGCTTTGTCTTCAGGATCAGGTTTACAAGAAACCAAGATCCCAATCAGTCTA  
GTACTAAGATTAAGGAATTCCAAAAAAGAACTAAATGATATTGATTTGAATTTACTCCTGGGAGAGATACAGCA  
GAGGGTGTCTCTCAGGAACCTCATTCTGCTGGCCTGGTCGACGGAAGGGATTTAGTAATAGTGGCAGCTAATTTG  
CAGAAAATTGTGGAAGAACCTCAGTCAAATCGATCTGTCACTTTCAAACCTGGCATCTGGTGTGCAAGGCTCAGAT  
ATTCTTGATGATGGTAAACTGATAGGATTTGCCAGCTCAGCATCAGCTAAACCACAACCCCTGGAAGAGGCGGCC  
TAAGGAGATTCCACACATGCGTATCTCTGTTGCTTCTATTGGCCTAAACCCACTACTGCCAAAGAACCAGCAAC  
AAACCTCCCGCTAGGAGCTTTAGAAGTCTTTATGTTCTTCTGCCATCATTCTCTCTTTTCCACAGGGAAAGA  
AAAGTTGGATCACTAGTGGCCAGCATCCCAGAGTTCCGTTAGTAAACTTACTTCATATGTCCCTGTCTTCTC  
CATCTGAGAAGTGGCCCATGTGCTTCAAGGCCAGGAGGGAGATCTGTCACTCATTCTTGCCTTACTCCAATGA  
TGGCCCAGGTGGAAGTAGCAGCTGTATCGGGCTTCTCATCTGCTGTTCCCCCACACCTGCCAGGATATGG  
ACATCTTGGGATATCTCTTTACCACTGAAGTAGAATTGATTGTTTCACTGGAGCCAGAGAATTTAATTTAATGT  
TTTTTCTTTGTACCTGATGTGAATTCTAGCAACCTTTGTTAGGAAAAAGCACAGCCTCAGATGGAGGCAGCCTAA  
ACTGTGTTCTTGTGTTTGTTCATGGTGTCTTAAGCGTTTTGCTGAAGCTGCTCTCAGGCACCCCTTCTTCATTG  
CTCTCTCCAGAAAGGGTTGCTAGCCTTAACCTCAGCTGGTGCAAACATCTGACTGTAGCCGAACCTCAGCCATC  
AGATCCTTCAAAGTGGAACCTTTGGATTGTTTTTACAGACAACATCGAGTAATGGCTTGTAATGTGAATTTTGCC  
AGAGGTGGTTTTTGAACAGGAAATCATAATTCATATCATTGGAGAAGTATTTATTTTCAAATATCAAATTGAAG  
AAAACTCAATCCTCCCATGAAATCAGTTCGCCCTGGCCTCCAAGTCGTGAGGAAATGGGTATGCAAGGCTGAGA  
TTTCTACAGCAATAAAGGAGACACACACTGGGCCAGAGAGGCCTGCCTTCTGCCTGCTCTCCTGCACTGACCCTT  
TGGAGGGGGTCTCTGTGTGCTGAAGCTAACTCAAGATGGAAGTGAAACCACATGTGCCGTGACCTTTAGGTTTTT  
ATGAGTAGACAGTGTTCAATTTGATTTTCTACAGAAATAATATAAATTATTCTTTAGGTTTAAAAAAGAGCACTCA  
TAATGCAATATGTGAATAATCAGTGAGGTTGATTTTTCTTTTTTCTACCGTTTCATAGTCTTTGTCTAAGTGT  
AGTAACCTACCGAGTTTTATATATGAGTGGGATACTCAATCTGGCCTTAAAAAGATACACAAAGATGGGCTGTG  
GGTCCCTGGAAAGGGGGAGAGTTGCCCTTTACAGAATCACTCGAGCCCTTTCCAGCACTGTTGGTCTGATGAACA  
AGGTTGTTTTACCTTATTTTCTTCTTGGAACATATCTGAAAACCTTCCCACAAATAAATTGTCACACCTTTTGT  
TCATTCTGAGTCTTTAGTTTTAGTCATGGGCTTTCTTACCTGCTCTAGGTGCAAAGGCATGTTGGGAAAGAGAT  
GGATGTTGGGGAGGAAGAGAGGAGATGGATTTCAAGTTGGGAGTTAGGAGGAGAGTAGGTGAGATGATCAGACACC  
GGAGTTCAACGTCCAGCAGTCTTGGTAAAAGGAGGGAGCCTGCTGAGCCAGGAGGGAGAAAAGAAGATTGACCA

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**FIGURE 1093B**

GCTTGCTAGAAAAATACTTAGCTTTTCTTTTCTTTTTTGTGGAGGGGGACGGAGAGGAACAAGGATGGGGAG  
GTAGGAATGAGGTATAGAAAAGAGATAGCATCTTCTTTGGCACAAGAATAGTGGCTTACCGCTTACCTTAGAGTT  
TTGTTTTTTTTTTTTCAAACCCATCAAAATCTACTTATTTATGAATCCAAGGGGTGGCAGCATCACTCTGTTCTA  
GCATTCTTTGTGGAGATGGTCTGGTGCCTAGCTGGGAGTGAGCAGCAGCCCATCCCCTGTTCACTTTCTCTAGCC  
CATCATTACCTGTGAAGTGCAGTGGGGCAGTCATGGCAAATAGAATTGGGCTGGGGTTTCTCCTTCTTTTCAGTT  
CATTGTTTGGCCTGCTAGGAATTAGAAGACAGACACCATGTCCCAGGACAGTGTTACTTCTTCTGCATGATGTGT  
GGTAGACTCCCTTTGCTGGCTTGTGCAGTGATACTGAGAAAATACATGAACAGAACTGCCCAGGTGGAACAGCA  
CGTAACCTAGTGAGTGACTGTACTCCTTTCTAGGAATGCTGATTTCAGAGTGCACCTCTTTGACTAGGTCCCAGGA  
TCCCCTTGTCCTTGAGTAGGGACTAACTATAGCACAAAGTAATATGTGCCAATGCTATTTGTGAAATGTTTGGT  
CTTTCTAAACGACTAAAGGATTTGTTGGGTTTTTGCTTAAGTTTTGAACCAAATCCTAGAGCCAGCTGATAATAT  
TTAATAATCTGGAGGAGAGAATAATGATGTACCAATAAGTGGAGATTCCTCCTTATGATGTATGCTAGGTTATGG  
AAGATGTAAAATATTCAACTTTTCTCCTTTTTTTGGACTTTGTATTTTACTGCATGTTTTCTTCATTTTAAAT  
CAATAAAGAGTAAATTGTC

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**FIGURE 1094**

MSEDSSALPWSINRDDYELQEVI GSGATAVVQAAYCAPKKEKVAIKRINLEKCQTSMDLLKEIQAMSQCCHHPNI  
VSYYTSFVVKDELWLVMLLSGGSVLDIIKHIVAKGEHKSGVLDESTIATILREVLEGLEYLHKNGQIHRDVKAG  
NILLGEDGSVQIADFGVSAFLATGGDITRNKVRKTFVGTFCWMAPEVMEQVRGYDFKADIWSFGITAIELATGAA  
PYHKYPPMKVLM LTLQNDPPSLETGVQDKEMLK KYGKSFRKMISLCLQKDPEKRPTAAELLRHKFFQKAKNKEFL  
QEKT LQRAPTISERAKKVR RVP GSSGRLHKTEDGGWEWSDDDEFDEESEEGKAAISQLRSPRVKESISNSELFPTT  
DPVGTLLQVPEQISAHLPQAPAGQIATQPTQVSLPPTAEPAKTAQALSSSGSGSQETKIPISLVLRRLRNSKKELDI  
RFEFTPGRDTAEGVSQELISAGLVDGRDLVIVAANLQKIVEEPQSNRSVTFKLASGVEGSDIPDDGKLIGFAQLS  
IS

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**FIGURE 1095**

ATGCGACCCGACCGCGCTGAGGCTCCAGGACCGCCCGCCATGGCTGCAGGAGGTCCCGGCGCGGGGTCTGCGGCC  
CCGGTCTCCTCCACATCCTCCCTTCCCCTGGCTGCTCTCAACATGCGAGTGCGGCGCCGCCTGTCTCTGTTCTTG  
AACGTGCGGACACAGGTGGCGGCCGACTGGACCGCGCTGGCGGAGGAGATGGACTTTGAGTACTTGAGATCCGG  
CAACTGGAGACACAAGCGGACCCCACTGGCAGGCTGCTGGACGCCTGGCAGGGACGCCCTGGCGCCTCTGTAGGC  
CGACTGCTCGAGCTGCTTACCAAGCTGGGCCGCGACGACGTGCTGCTGGAGCTGGGACCCAGCATTGAGGAGGAT  
TGCCAAAAGTATATCTTGAAGCAGCAGCAGGAGGAGGCTGAGAAGCCTTTACAGGTGGCCGCTGTAGACAGCAGT  
GTCCCACGGACAGCAGAGCTGGCGGGCATCACCACTTGATGACCCCTGGGGCATATGCCTGAGCGTTTCGAT  
GCCTTCATCTGCTATTGCCCCAGCGACATCCAGTTTGTGCAAGGAGATGATCCGGCAACTGGAACAGACAACTAT  
CGACTGAAGTTGTGTGTGTCTGACCGCGATGTCCTGCCTGGCACCTGTGTCTGGTCTATTGCTAGTGAGCTCATC  
GAAAAGAGGTGCCGCCGGATGGTGGTGGTTGTCTCTGATGATTACCTGCAGAGCAAGGAATGTGACTTCCAGACC  
AAATTTGCACTCAGCCTCTCTCCAGGTGCCCATCAGAAGCGACTGATCCCATCAAGTACAAGGCAATGAAGAAA  
GAGTTCCCCAGCATCCTGAGGTTTCACTGTCTGCGACTACACCAACCCCTGCACCAAATCTTGGTTCTGGACT  
CGCCTTGCCAAGGCCTTGTCCCTGCCCTGAAGACTGTTCTGAGGCCCTGGGTGTGTGTGTATCTGTCTGCCTGTC  
CATGTACTTCTGCCCTGCCTCCTCCTTTTCGTTGTAGGAGGAATCTGTGCTCTACTTACCTCTCAATTCCTGGAGA  
TGCCAACTTCACAGACACGTCTGCAGCAGCTGGACATCACATTTTATGTCTGATGGAACCAAGTGGCTGTGAGT  
GGCATGTCCACTTGCTGGATTATCAGCCAGGACACTATAGAACAGGACCAGCTGAGACTAAGAAGGACCAGCAGA  
GCCAGCTCAGCTCTGAGCCATTACACATCTTCACCTCAGTTTCTCACTTGAGGAGTGGGATGGGGAGAACAG  
AGAGTAGCTGTGTTTGAATCCCTGTAGGAAATGGTGAAGCATAGCTCTGGGTCTCCTGGGGGAGACCAGGCTTGG  
CTGCGGGAGAGCTGGCTGTTGCTGGACTACATGCTGGCCACTGCTGTGACCACGACACTGCTGGGGCAGCTTCTT  
CCACAGTGATGCCTACTGATGCTTCACTGCCTCTGCACACCGCCCATTCCTTCTCCTTCCCCACAGGGCAGG  
TGGGGAAGCAGTTTGGCCCAGCCCAAGGAGACCCCATCTTGAGCCTTATTTCTTAATGGGTCCACCTCTCATCTG  
CATCTTTCACACCTCCCAGCTTCTGCCCCAACCTTCAGCAGTGACAAGTCCCCAAGAGACTCGCCTGAGCAGCTTG  
GGCTGCTTTTCATTTCCACCTGTGAGGATGCCTGTGGTCATGCTCTCAGCTCCACCTGGCATGAGAAGGGATCCT  
GGCCTCTGGCATATTTCATCAAGTATGAGTTCTGGGGATGAGTCACTGTAATGATGTGAGCAGGGAGCCTTCTTCC  
CTGGGCCACCTGCAGAGAGCTTTCCCAACCTTTGTACCTTGATTGCCTTACAAAGTTATTTGTTTACAAACAG  
CGACCATATAAAAGCCTCCTGCCCCAAAGCTTGTGGGCACATGGGCACATACAGACTCACATACAGACACACACA  
TATATGTACAGACATGTACTCTCACACACACAGGCACCAGCATAACACACGTTTTTCTAGGTACAGCTCCCAGGAA  
CAGCTAGGTGGGAAAGTCCCATCACTGAGGGAGCCTAACCATGTCCCTGAACAAAAATTGGGCACCTCATCTATTCT  
CTTTTCTCTTGTGTCCCTACTCATTGAAACCAAATCTGGAAAAGACCCAATGTACCAGTATTTATACCTCTAAT  
GAAGCACAGAGAGAGGAAGAGAGCTGCTTAAACTCACACAACAATGAACTGCAGACACAGCTGTTCTCTCCCTCT  
CTCCTTCCCAGAGCAATTTATACTTTACCTCAGGCTGTCTCTGCGGAGAAAGGTGCCATGGTCTTAGGTGTCTG  
TGCCCCAGGACAGACCCTAGGACCCTAAATCCAATAGAAAATGCATATCTTTGCTCCACTTTCAGCCAGGCTGGA  
GCAAGGTACCTTTTCTTAGGATCTTGGGAGGGAATGGATGCCCTCTCTGCATGATCTTGTGAGGCATTTAGCT  
GCCATGCACCTGTCCCCCTTTAATACTGGGCATTTTAAAGCCATCTCAAGAGGCATCTTCTACATGTTTTGTACG  
CATTAATAATAATTTCAAAGATATCTGAGAAAAGCCGATATTTGCCATTCTTCTATATCCTGGAATATATCTTGC  
ATCCTGAGTTTATAATAATAATAATATTCTACCTTGAAAAAAAAAAAAA

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**FIGURE 1096**

MAAGGPGAGSAAPVSSSTSSLPALNMRVRRRLSLFLNVRTQVAADWTALAEEMDFEYLEIRQLETQADPTGRLL  
DAWQGRPGASVGRLLLELLTKLGRDDVLLELGPSIEEDCQKYILKQQQEEAEKPLQVAAVDSSVPRTAELAGITTL  
DDPLGHMPERFDAFICYCPSDIQFVQEMIRQLEQTNYRLKLCVSDRDVLPGTCVWSIASSELIEKRCRMVVVSD  
DYLQSKECDFQTKFALSLSPGAHQRLIPIKYKAMKKEFPSILRFITVCDYTNFCTKSWFWTRLAKALSLP



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**FIGURE 1097**

ATGTGGTTCTGCGCGTGTGCGGACGGCTGTCTGTAACTCCGCGGTCAAGTTCCCGGACTGGTGGCTGGTCTGCAG  
GGTTGACCTGCGCAATGCAGAGGCTGCAGGTAGTGCTGGGCCACCTGAGGGGTCCGGCCGATTCCGGCTGGATGC  
CGCAGGCCGCGCCTTGCCCTGAGCGGTGCCCCGACGGCCTCGGCCGCGGACGTGGTGGTGGTGCACGGGCGGCGCA  
CGGCCATCTGCCGGGCGGGCCGCGGCGGCTTCAAGGACACCACCCCGACGAGCTTCTCTCGGCAGTCATGACCG  
CGTTTCTCAAGGACGTGAATCTGAGGCCGGAACAGCTGGGGGACATCTGTGTGCGAAATGTGCTGCAGCCTGGGG  
CCGGGGCAATCATGGCCCGAATCGCCAGTTTCTGAGTGACATCCCGGAGACTGTGCCTTTGTCCACTGTCAATA  
GAAGTGTTCGTGCGGGCTACAGGCAGTGGCCAGCATAGCAGGTGGCATCAGAAATGGGTCTTATGACATTGGCA  
TGGCCTGTGGGGTGGAGTCCATGTCCCTGGCTGACAGAGGGAACCCTGGAAATATTACTTCGCGCTTGATGGAGA  
AGGAGAAGGCCAGAGATTGCCTGATTCTATGGGGATAACCTCTGAGAAATGTGGCTGAGCGGTTTGGCATTTCAC  
GGGAGAAGCAGGATACCTTTGCCCTGGCTTCCCAGCAGAAGGCAGCAAGAGCCAGAGCAAGGGCTGTTTCCAAG  
CTGAGATTGTGCCTGTGACCACCACGGTCCATGATGACAAGGGCACCAAGAGGAGCATCACTGTGACCCAGGATG  
AGGGTATCCGCCCCAGCACCACCATGGAGGGCCTGGCCAACTGAAGCCTGCCTTCAAGAAAGATGGTTCTACCA  
CAGCTGGAAACTCTAGCCAGGTGAGTGATGGGGCAGCTGCCATCCTGCTGGCCCGGAGGTCCAAGGCAGAAGAGT  
TGGGCCTTCCCATCCTTGGGGTCCTGAGGTCTTATGCAGTGGTTGGGGTCCCACCTGACATCATGGGCATTGGAC  
CTGCCTATGCCATCCCAGTAGCTTTGCAAAAAGCAGGGCTGACAGTGAGTGACGTGGACATCTTCGAGATCAATG  
AGGCCTTTGCAAGCCAGGCTGCCTACTGTGTGGAGAAGCTACGACTCCCCCTGAGAAGGTGAACCCCTGGGGG  
GTGCAGTGGCCTTAGGGCACCCACTGGGCTGCACTGGGGCAGCAGAGTCATCACGCTGCTCAATGAGCTGAAGC  
GCCGTGGGAAGAGGGCATACGGAGTGGTGTCCATGTGCATCGGGACTGGAATGGGAGCCGCTGCCGTCTTTGAAT  
ACCTTGGGAACTGAGTGAGGTCCAGGCTGGAGGCGCTACGCAGACAGTCCTGCTGCTCTAGCAGCAAGGCAGTA  
ACACCACAAAAGCAAAACCACATGGGAAAACCTCAGCACTGGTGGTGGTGGCAGTGGACAGATCAAGGCACCTCAA  
CTCATTGGAAAATGTGAACACTGATGACATGGTATAGGAGTGGGTGGGTGTTGAGCCACCCATCAGACCCCTCT  
TTAGCTGTGCAAGATAAAAGCAGCCTGGGTACCCAGGCCACAAGGCCATGGTTAATTCTTAAGGCAAGGCAAAAT  
CCATGGATGAGAAGTGCAATGGGCATAGTAAAAGTGCATGAATTT

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**FIGURE 1098**

MQR LQVVLGHLRGPADSGWMPQAAPCLSGAPQASAADV VVVHGRRTAICRAGRGGFKDTPDELLSAVMTAVLKD  
VNL RPEQLGDI CVGNVLQPGAGAIMARIAQFLSDIPETVPLSTVNRQCSSGLQAVASIAGGIRNGSYDIGMACGV  
ESMSLADRGNPGNITSRLMEKEKARDCLIPMGITSENV AERFGISREKQDTFALASQQAARAQSKGCFQAEIVP  
VTTTVHDDKGTKRSITVTQDEGIRPSTTMEGLAKLKPAFKKDGSTTAGNSSQVSDGAAAILLARRSKAEELGLPI  
LGV LRSYAVVGVPDIMGIGPAYAIPVALQKAGLTVSDVDIFEINEAFASQAAYCVEKLRLPPEKVNPLGGAVAL  
GHPLGCTGARQVITLLNELKRRGKRAYGVVSMCIGTGMGAAAVFEYPGN



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**FIGURE 1100**

MIPPSSPREDGVDGLPKEAVGAEQPPSPASTSSQESKLQKLKRSLSFKTKSLRSKSADNFFQRTNSEDMLQAHM  
VAEISPSSSPLPAPGSLTSTPARAGLHPGGKAHAFQEYIFKKPTFCDVCNHMIVGTNAKHGLRCKACKMSIHHKC  
TDGLAPQRCMGKLPKGFRRYYSSPLLIHEQFGCIKEVMPIACGNKVDVPVYETLRFGTSLAQRTKKGSSGSGSDSP  
HRTSTSDLVEVP EEANGPGGGYDLRKRSNSVFTYPENGTD DFRDPAKNINHQGSLSKDPLQMNTYVALYKFVPQE  
NEDLEM RPGDIITLLED SNEDWWKGKI QDRIGFFPANFVQRLQONEKIFRCVRTFIGCKEQGQITLKENQICVSS  
EEEQDGFIRVLSGKKKGLIPLDVLENI

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**FIGURE 1101**

GCCGCGGGCTTCGTTTGTGAGGAAGGGGGCCTAGGCCCGGGCCTGCGGTGGTGGGGGTGCTGCGCGCCGGGGGT  
CGCTCCTGCTGTGTCTTCCGCTCCAGCTTCGCCCCTTCCCCTTGCCAGCGGGGTGGGCGCGGAGAAGACCTGCC  
GGAGCCATGGAGGACGAAGTGGTCCGCTTTGCCAAGAAGATGGACAAGATGGTGCAGAAAGAAGAACGCGGCTGGA  
GCATTGGATTTGCTAAAGGAGCTTAAGAATATTCCTATGACCCTGGAATTACTGCAGTCCACAAGAATCGGAATG  
TCAGTTAATGCTATTTCGCAAGCAGAGTACAGATGAGGAAGTTACATCTTTGGCAAAGTCTCTCATCAAATCCTGG  
AAAAAATTATTAGATGGGCCATCAACTGAGAAAGACCTTGACGAAAAGAAGAAAGAACCTGCAATTACATCGCAG  
AACAGCCCTGAGGCAAGAGAAGAAAGTACTTCCAGCGGCAATGTAAGCAACAGAAAGGATGAGACAAATGCTCGA  
GATACTTATGTTTCATCCTTTCTCGGGCACCAAGCACTTCTGATTCTGTGCAGTTGAAGTGTAGGGAGATGCTT  
GCTGCAGCTCTTCGAACAGGGGATGACTACATTGCAATTGGAGCTGATGAGGAAGAATTAGGATCTCAAATTGAA  
GAAGCTATATATCAAGAAATAAGGAATACAGACATGAAATACAAAATAGAGTACGAAGTAGGATATCAAATCTT  
AAAGATGCAAAAAATCCAAATTTAAGGAAAAATGTCCTCTGTGGGAATATTCTCCTGACTTATTTGCTAGAATG  
ACAGCAGAGGAAATGGCTAGTGATGAGCTGAAAGAGATGTGGAAGAACTTGACCAAAGAAGCCATCAGAGAGCAT  
CAGATGGCCAAGACTGGTGGGACCCAGACTGACTTGTTCACATGTGGCAAATGTAAAAAGAAGAAATGCACTTAC  
ACACAGGTACAAACCCGTAGTGCTGATGAACCAAGTGACAACATTTGTTGTCTGTAATGAATGTGGAAATCGATGG  
AAGTTCTGTTGAGTTGGAAGAATTGGCAAAATATCTGGACCATTAAAGAAAACGGATTTTGTAACTAGCTTTAAAC  
TAGGCCAAGCAACTAGTTTTCTGCAAATCAAATTTTTAAAGCAACTTGAGTTAGACTTTGTTTTTGACCTAACA  
TCCCTTCTTAAATGCCTTCTGTAGTTTCAGATCAGTAGGGAGACCATATAAATTGTATGGTACCTGTTTCAA  
AACATATTTTTCTGTTTTTATAAGTAAGTTGATATTAATTAACTCTTGGCAATATTTCTTCTTTCTTAAAGGA  
AAATACACCTTAACTTTTTTTCTTTTACACTGTGAAACATACACAGTAGAAATTCTGTTACTCTCTGTTATTAAT  
ACATAAATGAAATACTTTTTTTTCCATATTGGCATGTAGCTACAAATATTAAAGGAGGAGAAAAAGGTAATATAA  
TTTTAGGTTTACCAAATATGGTGTGTATTCAAATAATACTTGACCAGCTTATCTAAATGTACATAATTTTGAGG  
TAGCTTATGAATTTGATTTTAATTATTATGTTTACAAAGCTTGAATATTAGATATTATTTTGCATCTGTAATAA  
CCGTGATCATCATCTCTTGTAATTTCTTGATCATGTATATTACTTGTCTTAAATAGATTTTTTGGAAACAAGACTT  
TATTGAGATCAGTTTGGTTTTCTGTAAATTTACCTGTTTGACTTTATAATGTGTTTTAGTTTTGCAGAAGAACA  
CTGTTGTAGTTTAGAAGGCTTTTTCATAAATCCCTCATAGGCAAAGATGAGAACTTCCCCTATTTTTTCCCCT  
CTTAGGAAGACATACTGGAAAGAAAATGTTTAGCATCTTAGTGTAGTATAGCTATTGTAAACAGTTTCATGACTAG  
ATTTTGATTTCGAAATCTATACTGACCAAGGATTAATCTTAAGGACTGTATAATTCATTAAAGCGGTGGTCTTTC  
CATGTGGAGACTGATAGAAAATAATTTGTCCCAAGTCTTATTTGCTGACTTTTTCTGTCAATGAGTGAGATTGT  
TGAACAACTGAATATATGGGCTATAGCAAGTAGCTTTACAGTACAGATCTTACAATTAAGTTTTGCTTTTGTTA  
AAGTGTGTACCATTTTTCTGTTTGGAGTAAGACAAAAATTGTTTTGACATAGGTTCCCTAGGGTACACTTGCTC  
TAGCATACTTTAAAGGCCACTGTTGCAAAGTCTACATTTTATGCTGAATCTGCATTCTGTCAGGCACCCGTAGAA  
AGACCTCAGTACATGCTTTGCACTCTCCTTTGCTCCCTTTTTCCAATTTCTTATTGCATATCATTTTGTGTAAT  
ACAGAAAGCAGCATTTTTAAATGTCCATGTTAAGAATTGGCCCACTGGTACCGACTCACCTCTATTTTGTGAGTT  
CATAGTTGAAGATTTGTTTTATTTCAAAAACAAAGTACATTTTGAATAATGTTTCAGAATAAAATAATCTCA  
CTTTTAAATTAAGTGATCCATTTTAAAATTTGTAATCAATAAAGTTTTTTTTTGTGTTAAACAT

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**FIGURE 1102**

MEDEVVRFakkMDKMVQKKNAAGALDLLKELKNIPMTLELLQSTRIGMSVNAIRKQSTDEEVTSLAKSLIKSWKK  
LLDGPSTeKDLDEKKKEPAITSQNSPEAREESTSSGNVSNRKDETNARDTYVSSFPRAPSTSDSVQLKCREMLAA  
ALRTGDDYIAIGADEEELGSQIEEAIYQEIRNTDMKYKNRVRSRISNLKDAKNPNLRKNVLCGNIPPDLFARMTA  
EEMASDELKEMWKNLTKEAIREHQMAKTGGTQTDLFTCGKCKKKNCTYTQVQTRSADEPVTTFVVCNECGNRWKF  
C

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**FIGURE 1103**

AGGTCCCACCGCTCCTACCAGCAGCCTGACCCAGGATGGCTCTACTCCCCAGCCTTCAATCCCTGGACCTGGGTT  
TGGAATTAGGAGACTTCCGTCGAGGGTCAATTGTGCGGGATCCTGGCCATTCCATACAAAATCTCACGACTGGCA  
AAAGAGAGGGGGACCCCTCGAGCAGAGGTCAGATATCACAAGGGACCCGGGTTTTTCCACCCCGCCCTCATTCCC  
AGCGTGGGGTCTCAGATGAGTGGGAAAACCTCAAATATGGATCAGAAATCATGCAAGTTTCGGACTCTGGCCTTAG  
GAGAAAACCTCTTAACGGAGATGGAATGTACGAGGGATCCAGCCACCCCATCCACTCATTGACTGGATGAAGTT  
TTGCGATGGGAAAATCCAGGTCAGGAGTTACGGACGACCTGCACCGCCCGGAGCTCCTTCTGGGTCCGGAGTTTG  
GGAAAAGTGCGGGTAGGGGTAAAGGTCACGGAAGAACTTCCCCACTCCCCCGCCTCTTTTCGTCCGCGGGCCG  
GTTCAAGAGGTATTCCGAACCAGGGGAGGAGAGCGGCGGCCATCGTACCTGAGCAGGAGCCAGCGCCTGCTGGAG  
CTGCTGCTGCTCCTCGCTGATCTTTTGCTTCACTTTCTTGAACATGGCGCAGCGTACGTACGGTCTCTGAGTGTCA  
ACGAAACCTGAAGGGCGAGAGCCCGGGGAGTCCCGGCCGCGACGGCTACGGCGACTTCTTTACACCAGGGACAGC  
GGGGGCCGGGCTCGCCGTCTCCTCCTTGAGGCTGTGGGCAAGTCCGGACACTCGTCTGAGGGTGTGCGCGTCTG  
CCGCCGCCGCTCTCTTTCTTCCGGGTGCCACTGGCTGGCCTCGGCCCCCATCCAGCCCCGGGAGCCGCGGCGG  
CGACGACAACGGCAGCAGGTGAACTGTGCGCCAAGGGCGCTTGCGCGGCCTACGTGGAGCTCACAGAGGCTAACT  
ACGGAGCACC GGATGGGACAAGCACAATGTGCGGTCCCGCACATGCGCGCTCGGCCGGTCTGCTTCCGAACCTGCT  
GCACTGGAGGACGCAAGGTTCCGTTCTGCTGATTTTCGTTGCGTGCAGGAGACCGCGTCTGCGGCTCAGAACCGGA  
GCGTGGGCTAGTCTGAACACTACCCTGACTCTCACCTGGGCTTTGGCCCTGCGAAATCAGACGGGGAGAGTGTCTG  
CTTCTATCGATGGCAGCAGGGCCGACGGGCCCCACCGCAAAGAACACAGGGATGAGCGTCAAGGATGGGAGAAGGG  
GAGATCCAGAGAACCTGACGCGGGCCCTAATTGATAGTGTCTTTTCTTTAGTAGCTGTAGCTAGGATTCTGTGT  
CTTCGGTGCCAGAGGGGGCCGCTTCCCTTCCCTGAACTCTTCCAGCGTCCGGAAGTCCCTGATACCAGGCGCCAG  
GGGTCCAAATGTTTTATGCCAATACTGTAAAACCTCAAGTGTGTTGGACACCTGCTTTATTCTTTTCTTACCGAA  
ATCGTGTATTTACGAATTCATTCAAAAACCTTTATCAGGCCTTGGAGATGTTAAAAGAATTTACAGCCTAGTGG  
AAGACACAGATTCCTAATTAGTCCAAATTTACTCCTAACACCTGCAATCATCCTACAAGATCTTAATGTTTATGT  
GCCTCATTATCTAAAACCTGAACTTTGGCTGCCTGTGAATCCTCAGGTCCATTTAGCAACCCACTTTTGCAT  
GCTGTACCTTTGATATCATCTGAACTGCTTACATTGTCTCCGGTATCAGAATCTAACAGTATATGCTGATCTCC  
ACGTTCTAGCAAATTTTGTGTTTACCAGCAATAATAGGAGCAACCTGCTCTCGAGAGTCCATATTCTGATCCCTAAA  
TGTATTAGAGCCACAGTGGGGCTGGAACACTGCCTTAACACCTGGGCTAAGTCTCTTATATCTCGTAGTGAAC  
ACCTTATGTATGTAAGGTGTCCCCAGCCCCCGGGCCACAAACGGGTACCAGCCCATGGCCTGTTAGGAACGGGGC  
TACACAGCAAGAAGTGAATCTCTGGCAAGCCAGGGAAGCTTAATCTGTATTTACAGCTGCTCCCCATGGTTTACA  
TTATCGTCTGAGCTCCACCTCCTGTGATCAGCTGTGGCATGAGATTCTCATAGGAGCTGGAACCTACTGTGAAC  
TAGGCATGAGAGGGATCTAGGTTATGCTCCTTATGAGAATCTAATGCCTGATGATCTGTCACTGTCTCCCATCAC  
CCCCAGATGGGACCATCTAGTTGCAGGAAAATAAGCTCAGGGCTCCACCGATTCTACATTATGGTGAGTTGTGT  
AATTGTTTCATTATATATTACAATGCAATAATAATAGAAATAAAGGGCACATAAATAT

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**FIGURE 1104**

MALLPSLQSLDLGLELGDFRRGSIVRDPGHSIQNLTTGKREGDPSSRGQISQGTRVFPPRPHSQRGVSEWENLK  
YGSEIMQVRTLALGENS



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**FIGURE 1105**

CTCTTCCGGTTCTAGGTGCTTCGGGAGCCGCGGCTTAAGGTGTAGACATGGCGAAGTCCAAGAACCACACCACAC  
ACAACCAGTCCCGAAAAATGGCACAGAAATGGTATCAAGAAACCCCGATCACAAAGATACGAATCTCTTAAGGGGG  
TGGACCCCAAGTTCCTGAGGAACATGCACTTTGCCAAGAAGCACACAAGAAGGGCCTAAAGAAGATGCAGGCCA  
ACAATGCCAAGGCCATGAGTGCACGTGCCGAGGCTATCAAGGCCCTCGTAAAGCCCAAGGAGGTTAAGCCCAAGA  
TCCCAAGGGTGTGAGCCGCAAGCTCGATCGACTTGCCTACATTGCCCATCCCAAGCTTGGAAGCGTGCTCGTG  
CCCGTATTGCCAAGGGGCTCAGGCTGTGCCGGCCAAAGGCCAAGGCCAAGGATCAAACCAAGGCCCAGGCTGCAG  
CTCCACCTTCAGTTCAGCTCAGGCTCCCAAGGTGCCAGGCCCTACAAAGGCTTCAGAGTAGATATCTCTGC  
CAACATGAGGACAGAAGGACTGGTGTGACCCCTACCCCGCCCCCTGGGCTACCATCTGCATGGGGCTGGTCCTC  
CTGTGCTATTTGTACAAATAAACCTGAGGCAGG

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**FIGURE 1106**

ATTGCCACATGGTCCACATTGCATGCAAGATTGCTGAGCTGAAGGAAAAGATTGATTGCCGTTCTGGTAAAAAGC  
CAGAAGATTGCCCTAAATTCTTGAAGTCTGATGATGCTGCCATCATTGACATGGTTCCTGGCAAGCCCATGTGTG  
TTGAGAGCTTCTCAGAACTGTTTGTTCATTGGCCATTTAAGTTTAGTAGTAAAAGACTGGTTAATGATAACAA  
TGCATCATAAAACCTTCAGATGGAAAGGAGAATGTTTTGTGGACCACTTGGTTTTCTTTTTGCATCTGGCAGT  
TTTAAGTTATTAGTTTTTAAAATCAGTACTTTTAAATGGAA

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**FIGURE 1107**

MVHIACKIAELKEKIDCRSGKKPEDCPKFLKSDDAAIIDMVPKGPMCVESFSELFVSIGHLISLVVKDWLMITMHH  
KTRWKGEFCFVDHFGFLFCIWQF

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**FIGURE 1108**

TGCCTGTCTTTTCCGTGCTACCTGCAGAGGGGTCCATACGGCGTTGTTCTGGATTCCCGTCGTAACCTAAAGGGA  
AACTTTCA**CAATGT**CCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGG  
AACCCACTTAGGTGGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTA  
TATCATAAATCTCAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCAATTGTTGCCATTGAAAACCTGCT  
TGATGTCAGTGTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCAC  
TCCAATTGCTGGCCGCTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCCGGGAGCCACGGCTTCT  
TGTGGTTACTGACCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCGCT  
GTGTAACACAGATTCTCCTCTGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGTGGG  
TTTAATGTGGTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCCTGTAACACCCATGGGAGGT  
CATGCCTGATCTGTACTTCTACAGAGATCCTGAAGAGATTGAAAAGAAGAGCAGGCTGCTGCTGAGAAGGCAGT  
GACCAAGGAGGAATTCAGGGTGAATGGACTGCTCCCGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGA  
CTGGTCTGAAGGTGTACAGGTGCCCTCTGTGCCTATTAGCAATTCCTACTGAAGACTGGAGCGCTCAGCCTGC  
CACGGAAGACTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCT**TAAGC**  
TGTTCTTGATAGGCTCTTAAGCAGCATGGAAAAATGGTTGATGGAAAATAAACATCAGTTTCT

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**FIGURE 1109**

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIVAIENPADVS  
VISSRNTGQRAVLKFAAATGATPIAGRFTPGTFTNQIQAAFREPRLLVVTDPADHQPLTEASYVNLPTIALCNT  
DSPLRYVDIAIPCNNKGAHSVGLMWWMLAREVLRMRGTISREHPWEVMPDLYFYRDPEEIEKEEQAAAEKAVTKE  
EFQGEWTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDWSAQPATEDWSAAPTATEWVGATTDWS



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**FIGURE 1111**

MVFRRFVEVGRVAYVSFGPHAGKLVAIVDVIDQNRALVDGPCTQVRRQAMPFKCMLTDFILKFPHSAHQKYVRO  
AWQKADINTKWAATRWAKKIEARERKAKMTDFDRFKVMKAKKMRNRIKNEVKKLQKAALLKASPKKAPGPKGTA  
AAAAAAAAAAKVPAKKITAASKKAPAQKVPAQKATGQKAAPAPKAQKGQKAPAQKAPAPKASGKKA

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**FIGURE 1112**

GACTCCTAGGGGCTTGCAGACTAGTGGGAGAGAAAGAACATCGCAGCAGCCAGGCAGAACCCAGGACAGGTGAGGT  
GCAGGCTGGCTTTCTCTCGCAGCGCGGTGTGGAGTCTGTCTGCCTCAGGGCTTTTCGGAGCCTGGATCCTCA  
AGGAACAAGTAGACCTGGCCGCGGGGAGTGGGGAGGGAAGGGGTGTCTATTGGGCAACAGGGCGGGGCAAAGCCC  
TGAATAAAGGGGCGCAGGGCAGGCGCAAGTGGCAGAGCCTTCGTTTGCCAAGTCGCCTCCAGACCGCAGACATGA  
AACTTGTCTTCCTCGTCTGTTCCTCGGGGCCCTCGGACTGTGTCTGGCTGGCCGTAGGAGGAGTGTTCAGT  
GGTGCGCGTATCCCAACCCGAGGCCACAAAATGCTTCCAATGGCAAAGGAATATGAGAAAAGTGCCTGGCCCTC  
CTGTGAGCTGCATAAAGAGAGACTCCCCATCCAGTGTATCCAGGCCATTGCGGAAAAACAGGGCCGATGCTGTGA  
CCCTTGATGGTGGTTTCATATACGAGGCAGGCCTGGCCCCCTACAACTGCGACCTGTAGCGGCGGAAGTCTACG  
GGACCGAAAGACAGCCACGAACCTCACTATTATGCCGTGGCTGTGGTGAAGAAGGGCGGCAGCTTTCAGCTGAACG  
AACTGCAAGGTCTGAAGTCTGCCACACAGGCCTTCGCAGGACCGCTGGATGGAATGTCCCTATAGGGACACTTC  
GTCCATTCTTGAATTGGACGGGTCCACCTGAGCCCATGAGGCAGCTGTGGCCAGGTTCTTCTCAGCCAGCTGTG  
TTCCCGGTGCAGATAAAGGACAGTTCCCCAACCTGTGTGCGCTGTGTGCGGGACAGGGGAAAAACAAATGTGCCT  
TCTCCTCCCAGGAACCGTACTTCAGCTACTCTGGTGCCTTCAAGTGTCTGAGAGACGGGGCTGGAGACGTGGCTT  
TTATCAGAGAGAGCACAGTGTGTGAGGACCTGTCAGACGAGGCTGAAAGGGACGAGTATGAGTTACTCTGCCCAG  
ACAACACTCGGAAGCCAGTGGACAAGTTCAAAGACTGCCATCTGGCCCCGGTCCCTTCTCATGCCGTGTGGCAC  
GAAGTGTGAATGGCAAGGAGGATGCCATCTGGAATCTTCTCCGCCAGGCACAGGAAAAGTTTGGAAGGACAAGT  
CACCGAAATTCCAGCTCTTTGGCTCCCCTAGTGGGCAGAAAGATCTGCTGTTCAAGGACTCTGCCATTGGGTTTT  
CGAGGGTGCCCCCGAGGATAGATTCTGGGCTGTACCTTGGCTCCGGCTACTTCACTGCCATCCAGAACTTGAGGA  
AAAGTGAGGAGGAAGTGGCTGCCCCGGCTGCGCGGGTCTGTGTGGTGTGCGGTGGGCGAGCAGGAGCTGCGCAAGT  
GTAACCAAGTGGAGTGGCTTGAGCGAAGGCAGCGTGACCTGCTCCTCGGCCTCCACCACAGAGGACTGCATCGCCC  
TGGTGTCTGAAAGGAGAAGCTGATGCCATGAGTTTGGATGGAGGATATGTGTACACTGCAGGCAAATGTGGTTTGG  
TGCCTGTCTTGGCAGAGAACTACAAATCCCAACAAAGCAGTGACCCTGATCCTAACTGTGTGGATAGACCTGTGG  
AAGGATATCTTGCTGTGGCGGTGGTTAGGAGATCAGACACTAGCCTTACCTGGAACCTGTGTGAAAGGCAAGAAGT  
CCTGCCACACCGCCGTGGACAGGACTGCAGGCTGGAATATCCCCATGGGCCTGCTCTTCAACCAGACGGGCTCCT  
GCAAATTTGATGAATATTTTCAAGTCAAAGCTGTGCCCCTGGGTCTGACCCGAGATCTAATCTCTGTGCTCTGTGTA  
TTGGCGACGAGCAGGGTGAGAATAAGTGGCTGCCCAACAGCAACGAGAGATACTACGGCTACACTGGGGCTTTCC  
GGTGCTTGGCTGAGAATGCTGGAGACGTTGCATTTGTGAAAGATGTCACTGTCTTGAGAACACTGATGGAAATA  
ACAATGACGCATGGGCTAAGGATTTGAAGCTGGCAGACTTTGCGCTGCTGTGCCTCGATGGCAAACGGAAGCCTG  
TGACTGAGGCTAGAAGCTGCCATCTTGCCATGGCCCCGAATCATGCCGTGGTGTCTCGGATGGATAAGGTGGAAC  
GCCTGAAACAGGTGTTGCTCCACCAACAGGCTAAATTTGGGAGAAATGGATCTGACTGCCCGGACAAGTTTTGCT  
TATCCAGTCTGAAACCAAAAACCTTCTGTTCAATGACAACACTGAGTGTCTGGCCAGACTCCATGGCAAAAACAA  
CATATGAAAAATATTTGGGACCACAGTATGTGCGAGGCATTACTAATCTGAAAAAGTGCTCAACCTCCCCCTCC  
TGGAAGCCTGTGAATTCCTCAGGAAGTAAACCGAAGAAGATGGCCCAGCTCCCCAAGAAAGCCTCAGCCATTCA  
CTGCCCCCAGCTCTTCTCCCCAGGTGTGTTGGGGCCTTGGCCTCCCCTGCTGAAGGTGGGGATTGCCCATCCATC  
TGCTTACAATTCCCTGCTGTGCTCTTAGCAAGAAGTAAAATGAGAAATTTTGTGATATTC



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**FIGURE 1113**

GCTTCTAAACAACCTTACCCTCTTCCCATTTTTCTGTGGTCCAACCTACCCTCGGCGATCCCAGGCTTGGCGGGGGC  
ACCGCCTGGCCTCTCCCGTTCCCTTTTAGGCTGCCGCCGCTGCCTGCCGCCATGGCAGAGTTGGGCCTAAATGAGCA  
CCATCAAAATGAAGTTATTAATTATATGCGTTTTGCTCGTTCAAAGAGAGGCTTGAGACTCAAACTGTAGATTCT  
CTGCTTCCAAGACCTCAAGGAGAGCAGGCTGGTGGAGGACACCTTCACCATAGATGAAGTCTCTGAAGTCCCTCAA  
TGGATTACAAGCTGTGGTTTCATAGTGAGGTGGAATCTGAGCTCATCAACACTGCCTATACCAATGTGTTACTTCT  
GCGACAGCTGTTTGCACAAGCTGAGAAGTGGTATCTTAAGCTACAGACAGACATCTCTGAAGTTGAAAACCGAGA  
ATTATTAGAACAAGTTGCAGAATTTGAAAAAGCAGAGATTACATCTTCAAACAAAAAGCCCATCTTAGATGTCAC  
AAAGCCAAAACTTGCTCCACTTAATGAAGGTGGAACAGCAGAACTCCTAAACAAGGAAATTTTAAGACTTCAAGA  
AGAGAATGAGAAATTGAAGTCAAGGTTGAAGACCATTGAAATACAGGCTACAAATGCACTGGATGAAAAGTCAAA  
ACTAGAAAAAGCACTGCAAGATTTACAGCTTGATCAAGGAAATCAAAGGATTTTATAAAGGCCCAAGACTTAAG  
TAACTTAGAAAAACACTGTCTCGCTGCCTTAAAGAGTGAGTTTCAGAAGACACTTAATGACAAGACAGAAAACCGAA  
GTCAGTGGAGGAGAATCTGGCGACAGCCAAGCAGCATCTACTCAGGGTTCAGGAGCAGCTGCACATGGCTGAAAA  
GGAATTAGAAAAAGAAATTCAGCAAACAGCAGCTTATCGAAACATGAAAGAGATTCTTACCAAGAAGAATGACCA  
AATCAAAGATCTGAGGAAAAGACTGGCACAATATGAACCTGAAGATTTAAACTGAAGATTTCTCTGGAAGCTAC  
CACATGCAAAACATACAGCAGTCTCACCTCAGGCATGTATTTTGAAGAGCATTTTGTGCATATCCCCTCTCCTTAT  
TTTTCTAATATTTAGACTTTGAATATTTAGAACTAGAGTTCCATTTTTCAGCTAGTTGAAAACAGAGAAAACCTA  
GTGATTCTGTCTGGTCACTCCACACACCTCTCTACTGAGTGCTCCAGAGTCTTAGCTCACATGCACTGAGAATTC  
TTTACAGCAAAGAAGAGATTTTLAGAGTGGGAAGAAGAGGCTTATCCTTCTGCATTAGTATAAAGAGTCTGTATT  
TTTAATAAATGTTAAATAAGCTAACAAATGTTTGACTTATGCATTCCCCATGGGTAAAAATAAATAATAGCATTG  
TTAAAGATAGTTATTACCAAAAAAGAGAGTTATTACAAATAAATATGCTCTTTATTTTTTAAAAATGAAATCTT  
AATTCAATTTACTCTATTTGATGATAAACTATAAATTCATTGAAAATGTGAATTCTATTATGGGTAGCCTTTTTTAC  
CAATTATAAGGAAAAATTTACAGCAGTGAACATGAACATTCACTTAGCTTCCTCAGTCTCTCCATCTTAAAGATCA  
TTTATCAGAGGAGGTTTTCAGCATTTTTTGACGATAACTTTTCATGAGTCTGTATTACTAATGGATAAGTCAAATC  
CATCTGCACCTTCTACAGTTTAGAAAAGTATCTGGACTCAGAATAAATGTAATATTTTACTTGTTCAGAAATGT  
TATTTTACATTTTATGTTCAATAAGAACACTTTTTTAAAGACGTATATTCAACATAAAATCAGCTATCAGACTTC  
AGATTAGACTTTATTTATGTGGGTCTATAATAATTGTATTTTCAAGAGGTTTTTACTATATTTGTATTGGCCTGG  
TTTTCTCAGACGATTTTGGACAAATCATTAGAACTGGGCATCATATCCACAGTTATGTAAGGCAGTGATATACT  
ATAAGGATAAAACAAAGTCAAGTCCATAAAGCAATAATCCCTCAGAAGGAAAGTCCTTACTTTTACATATTAATA  
TTTAGTAATTTTTCTGCTTCTAAAAGTGAGAGTATCACACCCTAAATGAACACTGTCTACTAAGAGACATCATT  
CCATTTCCACAAATGAAGATTTTATTCCAAGAAACGAGTTTACTGATTGGAGCATAGGGCTTGTTGTTATTTTTA  
TTCAAGCTTTTAGTAATAGCCTTGAATTTATTATTTTCTTATAGGCTTTTTGTTAAATAGTGAAGGAACAAAT  
GTTAAAGGGTAAGATAAATTTCCCTGCAAAAGGACACAGAAGGCAGTCTTAAGAAGATGAATGGATGAGAGAAGGG  
AGAGAATAAAATGCAATAACGAGCCAGCATTACTATGTATTTTCTCCTCACCTGTCTCTCCATATTTAGGTCAC  
TTACCAGTTTCTGTGCCCTTTTGGAGCTTTTGTGAGGGCTTCATTCTCACCCGTGATTTCTTTAGCCCTAAAT  
GACACTCTCTCCAAAAATCCATTGCTGTGTGGACCAAGATGTTCTATGTAATTCAGAAGCAGAAGCTCTTGG  
CTAAAGGGCTAGTGTGGCCTTCAGAAACCAATTCAATTATTTTCTCCCTACACCTTTGTGAGTTTGAAACCAAGTGA  
GAAAAAAGGTATGTTGATAAGAAACCTATATTGCTAGGTAGAATTTGTACTTGTTTTCTTGGTAGCAGTTTTGA  
AATATTCTGTACAGTACGTTTCTATTGTTTAATAATAAATTCAAAAATATTTCTAAAACCTTAAACCAACTATG  
CCAAGCATTAAAGATAAAACAAATATGATGTTCTTTGACGTAAATCAACGTGATGATTCTTTCACATGTAAACACAT  
TTTAGTGTCTCTGGTTTGTCAATTTTGTGTTGTTGTTGTTGTTGTTGTTTATTACTCTATACCCTTTAGCAAAATAC  
AGTTTTTAAATTTTTTATTGTTTTTAGTAGTTTCCCAACTTTAAGACTTATCTAATTTAACTGAGAAAGAAAGCCTT  
TTTCATATATATATATATTGGATTTCTAAGGATGGTGGTTTTGAGCCTTGATTAGACTTTTGATGTGCTAAGCCAG  
ACAGGCAGTCTGTACATTGATGGCCATCACAATGCAGCTTTGGTTTAATTTAATTCAGGCCTGCTGCTGAGTTAT  
GCACAGACTTTTTGTTGACCAAAATAAAATATAAAGGGTTTTCTTCTGTTTGACATTTGTGTTCAATTTTTCTCT  
TTATGTATTACATTTTAACTATATTAAATAAATGTTTAAATGATAATTTGCTTATGCTTATAAACTCAGCAT  
AAGAAAAAT

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**FIGURE 1114**

MAELGLNEHHQNEVINYMRFARSKRGLRLKTVDSQDLKESRLVEDTFTIDEVSEVLNGLQAVVHSEVESELIN  
TAYTNVLLLRQLFAQAEKWYLKLQTDISELENRELLEQVAEFKAEITSSNKKPILDVTKPKLAPLNEGGTAELL  
NKEILRLQEENEKLKSRKLTIEIQATNALDEKSKLEKALQDLQDQGNQKDFIKAQDLSNLENTVAALKSEFQKT  
LNDKTENQKSLEENLATAKHDLRVQEQQLHMAEKELEKKFQQTAAAYRNMKEILTKKNDQIKDLRKRLAQYEPED

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**FIGURE 1115**

AGATGACGTGCGGCTCGTGGGGCAGCTCGGCAGCATGGCGTCCGTGACGCTGAGCGAGGCGGAGAAGGTGTACAT  
CGTG CATGGCGTCCAGGAAGACCTCCGTGTGGATGGCCGTGGCTGTGAGGACTACCGATGTGTCGAAGTGGAAC  
TGATGTGGTGTCCAACACTAGTGGGTCCGCCAGGGTCAAGCTGGGTCACACAGACATCTTGGTGGGAGTGAAAGC  
AGAAATGGGGACGCCGAAGCTGGAGAAACCAAATGAAGGCTACTTGGAGTTCTTTGTTGACTGTT CAGCCAGTGC  
TACCCCTGAATTTGAAGGTAGAGGAGGTGATGACCTTGGCACCGAGATCGCTAACACCCCTCTATCGGATATTTAA  
CAATAAAAGCAGTGTGCGACTTAAAGACCCTCTGCATTAGTCCTCGGGAGCACTGCTGGGTCTCTATGTGGATGT  
GCTGCTTCTGGAATGTGGTGGAAATTTGTTTGATGCCATTTCCATTGCTGTAAAGGCTGCTCTCTTCAATACAAG  
GATACCAAGGGTTTCGAGTTTGGAGGATGAAGAGGGGTCGAAGGACATTGAATTGTCAGATGACCCTTATGACTG  
CATACGACTAAGTGTGGAGAATGTCCCCTGCATTGTCACTCTGTGCAAGATTGGCTATCGGCATGTGGTGGATGC  
TACTCTTCAGGAGGAGGCCTGCTCGCTGGCCAGCTTGCTGGTGTGCGGTGACCAGCAAGGGAGTTGTGACGTGCAT  
GAGGAAAGTGGGGAAGGGCAGCCTGGACCCAGAGAGCATCTTCGAGATGATGGAGACTGGCAAGCGTGTGGGCAA  
GGTACTGCATGCCTCCTTGCAGAGTGTGTGTCACAAGGAAGAAAGCCTGGGGCCCAAGAGACAGAAAGTTGGATT  
CCTGGGATGATTTGCACATCAACTGCTCAACTGTGGATTGTTTTTTACTTTTCTTTTAAACCGGTTTCGTATATA  
TTTTTCTTCGCTGTTACGAATTTACAGCAGCATTTGTACATGTAAAATTAAAGGCTATTTTCTGGTCTGGTT

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**FIGURE 1116**

MASVTLSEAEKVYIVHGVQEDLRVDGRGCEDYRCVEVETDVVSNTSGSARVKLGHTDILVG VKAEMGTPKLEKPN  
EGYLEFFVDCSASATPEFEGRGDDLGTETIANTLYRIFNNKSSVDLKTLCISPREHCWVLYVDVLLLECGGNLFD  
AISI AVKAALFNTRIPRVRVLEDEEGSKDIELSDDPYDCIRLSVENVPCIVTLCKIGYRHVVDATLQEEACSLAS  
LLVSVTSKGVVTCMRKVGKSLDPESIFEMMETGKRVGKVLHASLQSVVHKEESLGPKRQKVGF LG

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**FIGURE 1117**

CACCGTGCCCAAGAGAAAGGCTGAAGGGGATGCTAAAGGAGATAAAGCCAAGGTGAAGGATGAACCACAGAGAAG  
ATCCATGAGGTTTTCTGCTAAACCTGCTCCTCCAAAGCCAGAGCCCAAGCCTAAAAAGGCCCTGCAAAGAAGGG  
AGAGAAGATAACCCAAAGGGAAAAAGGGAAAAGCTGATGCTGGCGAGGAGGGGAATAACCCTGCAGAAAACGGAGA  
TGCCAAAACAGACCAGGCACAGAAAGCTGAAGGTGCTGGAGGTGCCAAGTGAAGCATGTGCATTTTTTATAACTG  
TGTACTTTTGATGACTGTACAGCTTGAAATACTATTTTTATCAAGTTTTATAAAAAATGCAGAATTTTGTTTTACT  
TTTTTTTTTAAAGCTATGCTATTAGCACACAGAACACTTCAGTGTTGTTTTAGGGAGAAGGGGCATATGTCACTA  
ATAGAATGTCCCAAAGCTGGATTGATGTGGGGAAAACACCTTTCCCTTCTAGCTTTGAGAGACTTCCTCTTGGC  
TCCCAGGAGGAGGGATTCCCTGACTTTGACACAGATGGTCACCTTGGCACAAAAGCCTTGTAGGATGGAAAAACA  
AATTTGTTTTTATGTCTCTTCTCCCTTTCCATCCTTCAGCATAGACTTAACTCCCTTAAGCCCAGACATCTGTT  
GGGACCTGACCCCCAGTCATTGGTTACCAGTGTGTCAGGCAATCTGGACTTTCCAGTGATGCCACTGAGATGGCA  
CCTGTCAAAACAGCGGTGGTTCCATTTCTAGACTGTGGATCTTCAGATAAATTCTGCCATTTTCATTTCACTTCC  
TGAAACTCAGGGTCGGCTTGTGAAAAGCTGTTAAACAACATGCTAAATGTGAAATGTCAACCCTCACTCTAAACT  
TTCCCTGTTTCAGAGCATCAGACGAAAACCTTCATTGGGTTTTATAGTGGCTTTTCAGATTTTTGGTAGTCAATTGAA  
GAAGGGAGTTTTAAATTTGTTGTATACTGTTTCATGATTGTCTGCCCATGTCTGCCTGAAATACCATGATTGTTT  
ATGGAAAGTATCTTTAATAAAGCTGGATACAGTTTGGC

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**FIGURE 1118**

VPKRKAEGDAKGDKAKVKDEPQRRSMRFSAPAPFPKPEPKPKKAPAKKGEKIPKGKKGKADAGEEGNNPAENGDA  
KTDQAQKAEGAGGAK

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**FIGURE 1119**

AAGCCTCTCGGTCTGTGGCAGCAGCGTTGGCCCCGGCCCCGGGAGCGGAGAGCGAGGGGAGGCGGAGACGGAGGAA  
GGTCTGAGGAGCAGCTTCAGTCCCCGCCGAGCCGCCACCGCAGGTCGAGGACGGTTCGGACTCCCCGGGCGGGAGG  
AGCCTGTTCCCTGAGGGTATTTGAAGTATACCATACAACTGTTTTGAAAATCCAGCGTGGACAATGGCTACTCA  
AGCTGATTTGATGGAGTTGGACATGGCCATGGAACCAGACAGAAAAGCGGCTGTTAGTCACTGGCAGCAACAGTC  
TTACCTGGACTCTGGAATCCATTCTGGTGCCACTACCACAGCTCCTTCTCTGAGTGGTAAAGGCAATCCTGAGGA  
AGAGGATGTGGATACCTCCCAAGTCCTGTATGAGTGGGAACAGGGATTTTCTCAGTCCTTCACTCAAGAACAAGT  
AGCTGATATTGATGGACAGTATGCAATGACTCGAGCTCAGAGGGTACGAGCTGCTATGTTCCCTGAGACATTAGA  
TGAGGGCATGCAGATCCCATCTACACAGTTTGTATGCTGCTCATCCCACTAATGTCCAGCGTTTGGCTGAACCATC  
ACAGATGCTGAAACATGCAGTTGTAAACTTGATTAACTATCAAGATGATGCAGAACTTGCCACACGTGCAATCCC  
TGAAGTGACAAAAGCTGCTAAATGACGAGGACCAGGTGGTGGTTAATAAGGCTGCAGTTATGGTCCATCAGCTTTC  
TAAAAAGGAAGCTTCCAGACACGCTATCATGCGTTCTCCTCAGATGGTGTCTGCTATTGTACGTACCATGCAGAA  
TACAAATGATGTAGAAACAGCTCGTTGTACCGCTGGGACCTTGCATAACCTTTCCCATCATCGTGAGGGCTTACT  
GGCCATCTTTAAGTCTGGAGGCATTCTGCCCTGGTGAAAATGCTTGGTTCACCAAGTGGATTCTGTGTTGTTTTA  
TGCCATTACAACCTCTCCACAACCTTTTATTACATCAAGAAGGAGCTAAAATGGCAGTGCCTTTAGCTGGTGGGCT  
GCAGAAAATGGTTGCCTTGCTCAACAAAACAAAATGTTAAATTCTTGGCTATTACGACAGACTGCCTTCAAATTTT  
AGCTTATGGCAACCAAGAAAGCAAGCTCATCACTAGGCTAGTGGTGGACCCCAAGCTTTAGTAAATATAATGAG  
GACCTATACTTACGAAAACTACTGTGGACCACAAGCAGAGTGCTGAAGGTGCTATCTGTCTGCTCTAGTAATAA  
GCCGGCTATTGTAGAAGCTGGTGAATGCAAGCTTTAGGACTTCACCTGACAGATCCAAGTCAACGTCTTGTTCA  
GAAGTGTCTTTGGACTCTCAGGAATCTTTAGATGCTGCAACTAAACAGGAAGGGATGGAAGGTCTCCTTGGGAC  
TCTTGTTTCAGCTTCTGGGTTTCAGATGATATAAATGTGGTTCACCTGTGCAGCTGGAATTCTTTCTAACCTCACTTG  
CAATAATTATAAGAACAAGATGATGGTCTGCCAAGTGGGTGGTATAGAGGCTCTTGTCGCTACTGTCTTCGGGC  
TGGTGACAGGGAAGACATCACTGAGCCTGCCATCTGTGCTCTTCGTCTGACCATGACCGCCGACACCAAGAAGCAGA  
GATGGCCCAAGATGCAGTTTCGCTTCACTATGGACTACCAGTTGTGGTTAAGCTCTTACACCCACCATCCCACTG  
GCCTCTGATAAAGGCTACTGTTGGATTGATTGCAAAATCTTGCCCTTTGTCCCGCAAATCATGCACCTTTGCGTGA  
GCAGGGTGCCATTCCACGACTAGTTTCAAGTTGCTTGTCTGTCACATCAGGATACCCAGCGCCGTACGTCCATGGG  
TGGGACACAGCAGCAATTTGTGGAGGGGGTCCGCATGGAAGAAATAGTTGAAGGTGTACCGGAGCCCTTCACAT  
CCTAGCTCGGGATGTTTACAACCGAATTGTTATCAGAGGACTAAATACCATTCCATTGTTTGTGCACTGCTTTA  
TTCTCCCATTTGAAAACATCCAAAGAGTAGCTGCAGGGGTCTCTGTGAAGTTGCTCAGGACAAGGAAGCTGCAGA  
AGCTATTGAAGCTGAGGGAGCCACAGCTCCTCTGACAGAGTTACTTCACTCTAGGAATGAAGGTGTGGCGACATA  
TGCAGCTGCTGTTTTGTTCCGAATGTCTGAGGACAAGCCACAAGATTACAAGAAACGGCTTTCAGTTGAGCTGAC  
CAGCTCTCTCTTTCAGAACAGAGCCAATGGCTTGAATGAGACTGCTGATCTTGGACTTGATATTGGTGCCAGGG  
AGAACCCCTTGGATATCGCCAGGATGATCCTAGCTATCGTTCTTTTCACTCTGGTGGATATGGCCAGGATGCCTT  
GGGTATGGACCCCATGATGGAACATGAGATGGGTGGCCACCACCCTGGTGTGCTGACTATCCAGTTGATGGGCTGCC  
AGATCTGGGGCATGCCAGGACCTCATGGATGGGCTGCCTCCAGGTGACAGCAATCAGCTGGCCTGGTTTGATAC  
TGACCTGTAAATCATCCTTTAGCTGTATTGTCTGAACTTGCAATTGTGATTGGCCTGTAGAGTTGCTGAGAGGGCT  
CGAGGGGTGGGCTGGTATCTCAGAAAGTGCTGACACACTAACCAAGCTGAGTTTCCTATGGGAACAATTGAAGT  
AAACTTTTTGTTCTGGTCCTTTTTTGGTTCGAGGAGTAACAATACAAATGGATTTTGGGAGTGACTCAAGAAGTGAA  
GAATGCACAAGAATGGATCACAAGATGGAATTTATCAAACCTAGCCTTGCTTGTTAAATTTTTTTTTTTTTTTT  
TTTAAGAATATCTGTAATGGTACTGACTTTGCTTGCTTTGAAGTAGCTCTTTTTTTTTTTTTTTTTTTTTTTT  
CAGTAAGTGTTTTTTAAGTCTCTCGTAGTGTTAAGTTATAGTGAATACTGCTACAGCAATTTCTAATTTTTTAAGA  
ATTGAGTAATGGTGTAGAACATAATTCTAATCACTCTAATTAATTGTAATCTGAATAAAGTGTAACAATTGTG  
TAGCCTTTTTGTATAAAATAGACAAATAGAAAATGGTCCAATTAGTTTCCTTTTTTAATATGCTTAAATAAGCAG  
GTGGATCTATTTCTATGTTTTGATCAAAAATATTTGGGATATGTATGGGTAGGGTAAATCAGTAAGAGGTGTTA  
TTTGAACCTTGTTTTGGACAGTTTACCAGTTGCCTTTTATCCCAAAGTTGTTGTAACCTGCTGTGATACGATGC  
TTCAAGAGAAAATGCGGTTATAAAAAATGGTTTCAAGATTAACCTTTTAATTCATT

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**FIGURE 1120**

GGGACTGCGAGCCAGGGACTCGGGCCGCGGGGCGGGAAGAAGTGGGGCAGCGCTTGGCCAGGCCGAAAGGACTTT  
GGGGGTGGGGGCTGGGAGTCCGTGTCTCGAATGAGGGAGGAGAGGTGGAGTTGCCGGGGCTCAGGCCCGGCCTCG  
AGCATGGGCGGATGAGAGGAGTCGGGAGCCGAGGCCTAGGGTCCTTCGGGTGAGGGGAGACGGAGCCAGCGAGGA  
GATGGAGCAGAAGCTTGTGGAGGAGATTCTTCAAGCAATCACTATGTCAACAGACACAGGTGTTTCCCTTCCTTC  
ATATGAGGAAGATCAGGGATCAAACTCATTGAAAAGCTAAAGAGGCACCATTTCGTACCCGTTGGAATAGCGGG  
TTTTGCAGCAATTGTTGCATATGGATTATATAAACTGAAGAGCAGGGGAAATACTAAAATGTCCATTCATCTGAT  
CCACATGCGTGTGGCAGCCCAAGGCTTGTGTAGGAGCAATGACTGTTGGTATGGGCTATTCCATGTATCGGGA  
ATTCTGGGCCTTTAGTTAGATGTCTTATTATTAAAGTTACCTATTATTGTTGAAATAAACTAATTTGTATGGGT  
TTAGATGGTAACATGGCATTTTGAATATTGGCTTCCTTTCTTGCAGGCTTGATTTGCTTGGTGACCGAATTACTA  
GTGACTAGTTTACTAACTAGGTCAATTCAAGGAAGTCAAGTTAACTTAAACATGTCACCTAAATGCACCTTGATGGT  
GTTGAAATGTCCACCTTCTTAAATTTTAAAGATGAACTTAGTTCTAAAGAAGATAACAGGCCAATCCTGAAGGTA  
CTCCCTGTTTGCTGCAGAATGTCAGAT



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**FIGURE 1121**

TGGTGCTGACCAGCCACTTACCCACAGGAGCCACATCCAACCTCGGCTCTCAGCTGAGGAAGCAGCCCATCGCCTT  
GCACGCCTGGACACTAACTCACCTAGCATCTTCCAGCACCTGGACGAACTCAAGGCATTCTTCGCAGAGGTTGTC  
AGTGATGGTGTACCCCTGGTGCTAGCCCTGGTCCCCACCGGCAGCCCCACTCCTTCATCACCCAGGGTTCCCCA  
GACCTGTTGGTGACTGTGAGTGCCAGTGGGCTGCTGGGCACCCACAGCTGGTTGCCCTATGACCGCAACATAAGC  
AACTACTTCAGCTTCAGCAAAGACCCCAACATGGGCAGCCACAAGACGCAGCGACTGCTGAGTGGCCCGTGGGTG  
CCAGGCAGTGGTGTGAGTGGACAAGCACTGGCAGTGGCCCCGGATGGAAAGCTGCTATTACAGCGGTGGCCACTGG  
GATGGCAGCCTGCGGGTGACTGCACTACCCCGTGGCAAGCTGTTGAGCCAGCTCAGCTGCCACCTTGATGTAGTA  
ACCTGCCTTGCACTGGACACCTGTGGCATCTACCTCATCTCAGGCTCCCGGGACACCACGTGCATGGTGTGGCGG  
CTCCTGCATCAGGTGTGCCTCGTGGGCAGCTCTGTGGGGCCCCCGTAGCCAGACCTGCAGCCCATCCGTCCCTC  
AGTGGCCTTCCAGTCCTGTCTCCTCTAGTC

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**FIGURE 1122A**

AGTTGCAGCGGCCGGGGAAGATGGTGGAGGACGGCGCGGAGGAGCTGGAGGATCTGGTGCACCTTCTCCGTGTCTG  
AGTTGCCTAGTCGCGGCTACGGCGTCATGGAGGAGATCCGGCGGCAGGGCAAGCTGTGCGACGTGACCCCTCAAGA  
TTGGGGACCACAAATTCAGTGCCACCGGATTGTCTTAGCAGCCTCGATCCCGTATTTCCATGCTATGTTTACAA  
ATGACATGATGGAGTGCAAGCAGGATGAGATTGTAATGCAAGGAATGGACCCAAGTGCCCTGGAGGCTCTGATCA  
ACTTTGCCTACAACGGCAACCTTGCCATTGACCAGCAAAATGTCCAGTCATTGCTGATGGGGGCGAGCTTCTCTGC  
AGCTGCAGAGCATCAAAGACGCCTGCTGCACATTCCCTTCGAGAACGGCTTCACCCAAAAAACTGCCTGGGTGTGC  
GCCAGTTTGCTGAGACAATGATGTGTGCTGTGCTGTACGACGCTGCCAACAGCTTCATCCACCAGCACTTTGTGG  
AGGTGTCCATGTGAGAAGAGTTCCCTGGCCCTGCCCTTGGAAGACGTGCTTGAGCTGGTGTCTCGGGATGAGCTGA  
ATGTCAAATCTGAGGAGCAGGTCTTTGAAGCTGCATTGGCCTGGGTGAGATACGACCGGGAGCAGAGGGGTCCCT  
ACCTGCCTGAGCTGCTGTCCAATATCCGCCTGCCCTCTGTGCGCCCCAGTTCCTTTCAGACAGAGTACAGCAGG  
ATGACCTGGTGCCTTGTGTCACAAATGCAGGGACCTGGTAGACGAAGCAAAGGACTACCACCTCATGCCAGAGC  
GCCGGCCCCACCTGCCAGCTTTCAGAACCCGGCCACGCTGCTGCACATCCATCGCTGGACTTATCTACGCTGTAG  
GGGGCCTCAACTCAGCAGGTGATTCCCTGAATGTGGTGGAAAGTGTTCGACCCCATTGCCAATTGCTGGGAGAGAT  
GCCGTCCCATGACAACAGCCCCGAGCCGCGTTGGCGTGGCTGTGGTGAACGGGCTTCTCTATGCCATCGGAGGAT  
ATGACGGCCAGCTACGGCTGAGCACTGTGGAGGCCTACAACCCGGAGACAGACACATGGACCAGAGTGGGGAGCA  
TGAATAGCAAGAGAAGTGCCATGGGGACAGTCGTGCTGGATGGGCAGATCTACGTCTGTGGGGGCTACGATGGCA  
ACTCTTCCCTCAGCTCCGTGGAGACCTACTCACCTGAGACGGACAAATGGACAGTGGTGACCTCGATGAGCTCGA  
ATCGCAGTGCTGCTGGGGTTACAGTCTTTGAGGGCAGGATATATGTGTGAGGCGGCCATGATGGTTTGCAGATCT  
TCAGCAGTGTTGAACACTACAACCACACAGCCACCTGGCACCCCTGCAGCTGGCATGCTCAACAAGCGCTGCC  
GGCACGGAGCCGCTCCCTGGGGAGCAAGATGTTTGTCTGCGGGGGCTACGATGGCTCTGGCTTCTCAGCATTG  
CCGAGATGTACAGCTCTGTGGCAGACAGTGGTGCCTGATTGTCCCCATGCACACGCGCAGGAGCCGGGTCTCCC  
TGGTGGCCAGCTGTGGGCGCCTCTACGCTGTTGGGGGCTACGACGGACAGTCAAACCTAAGCTCAGTGGAGATGT  
ATGACCCAGAGACAGACTGCTGGACATTTCATGGCCCCCATGGCGTGCCATGAGGGAGGGGTGCGTGTGGGCTGCA  
TCCCTCTCCTCACCATCTAAGGCAGAGGATGGGATGTGGTGGGGCAGGGATCTGGTACAGACATAGGCGCTTCCT  
TCCAGGAACAGTCCCTCAGGAGAGGCAGTGGACCAGAAGAGATGGCGAAACGTGAGCTCGCCGGAGGTACAGTTT  
TTCCAGGTGCTTAAGCCCTCCCCACTGTGCCACCCTTGTGACCTTCAGGCTTGGGTTCATCAAGATGCACAGCAT  
GGAACACAAGCTCCTCTGGATCCTGCAGCTGGTGACATGGAAGTGTCTTCTGGTCCACATGAACACAGGCTCCAT  
CCAGGCCCAGCTCCTACCCACCGCCTCTCTGTGGGCCAGCTGTTACAGAAGGCCTTCCATCTGATGCTCCCCAT  
CGCTGCTTGCTCTCCAGCCGAGTCTGGCCAATTTGCCATGGGGAGGCTGCAGTGTCCAAGCCTGCTGGAAACTG  
GGATGTAGCTGGGGACGAAAGGACAGACCCCAAGCGTCTCCCTGCCTGAGATGGTGTGGCCACAGCAGTGGAAAG  
CTGCACACAGGCACATTCTTCTTCCACAGTGGGGCACCAAGGATTCTGTCTCATTGCTGGGTAAGCAGGGAGA  
AGAGAAGTTTTCCCATGTCTAATTTTGGGATTTAGTGAGGCCTTTTGATCTGTCCAGGAGAACAGAAGGGAAA  
AAAAGATACTTGAAAGAACTGAAGGAAATTTAAACAAAGAAACACTTGAAAGAACTGGAAAGAAAAATAATTT  
TTTTATGTGAACAAATTTTGCAAGAAGAAAAAGCATAAAGACACTAACGGCAAATCTATGTTTAAATGGAAAA  
TCGTCTAACTGGAGAAGGGCGGTATCCACCCACATTCGGATCCCAGGGTCTGAGGCCTCGCATTGAGCTGGGG  
GTTCCCTCTGAGCCCCAGTGTGTGTGGAATCAGTGCACTCTTGACTGGGCCTGTAGTAAGGTGCTCATGGGGTTT  
GTCTTCTCACCACCATCAGAGGACTTTTAAATCATAGGCGTAGAGAGTTAGGCTATCTGCTGAATTACTGCCA  
CTCTTCTTGGTGGGGCTCCTAGCTGTGGCTGGGGGCTCCAGGCGCCCCGTGTGATTACCTCCTACTGCCACCATG  
GCGCTCATTAGATTCCCACTCTCACTAACATTGCTTCCTTTTTTGACCAGCAGGAAACAGCAGGTCTGGCCAG  
ATTCTCACTTGCCCATCAATCTCGTTCTTGATGATTTCCCTCATTGTGATGCTTCTGGGGCACGTTGACCATAT  
GCACCTCTAGAACCTAACAGGGCTTCCTTCTACCAGCTGTGGGCGGGCTTGGTCTGGTAACCTTGTCTGCTCTG  
CCATTCCACTGCTCCTCCATCCACTCGCCAATCCCAAGAGTCTGGCCTCCCTCCAGCCCTGGGCAGACTGACCAG  
CAAGGTGGACCTTTACATTCAAGCACAGCTGGCTTTTATGACATAAAGAACTAAAGGCCGAAAGAATCTCTTGCT  
GCTGCAAAGAACAGATTTTATATTTCTTCTCTAATCTTGCCAAATGACCTTTACCTTTTGGAAGATTTCATAT  
TGCTTCTCTCCTCCCTGGATAGGACCTAATGTAGCACAGCGGACTCAAAGAGGAGGACATTTTCTCTTGCCAGTG  
CACTGGGCAGTGGGGCTGTCTTCAACTGCTGCTGCCAAATTGTTTTCTAAAATTCTTCCAGTAGAGACTAAA  
AGAAGATTCAATTCCTGTAACCAAGACTGAGTCTTAGGGCTCCAGTCTCCACCTGCTTGGTTTCTATCCTTTG  
CTGCCTGCCTGGGGTGGCCTGGAAGCCTGTTAGAAAGGCACAATGTGGAGCCTGGGGTGTCTCCCCACCCAG

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**FIGURE 1122B**

GACCGTCAGGTTTACCAGTGTGTGCAATCGCCATGTATTACAGAGGGAAGTACCTTTGTTACCTACAACCTTAGGAG  
CTAGGCCTCTGCTACAAGCACTTGAAAATGATATTTTTATTTTAAACGTCTCAACAATCTGATATCGGATGTCGT  
TTAACCTGGGCTCGTGGTAGGGCTCCAGCATTTCTCCCTCCTTCCTGGTTTGCTGTAGGGGTAGACTCGGAAGG  
TGGGTGGGGTGTGCATTTCTGTAGGAGTGTATCAGTGCTTGTCTTATTATAAGCCCCCTTTCTTTTGTGAATTT  
GAAGTAGCACCACAAGCCTGGATTGTGAAGGTATTAAGAATCGGTCTGTGGGCTACTGAGTGGGTCCTTAGGAT  
ACTGGCCCAGATTTTGCCACTGGGTATGGCAGATCATTTTCTACCATGGCCTGCTGCTCTTGTAGTGGACTTCCT  
GAGTCCAATCCCACCTCCTGGTGTAGAATTTACACTGCTGCACCTGAGGTCGATGTTTCAAAGTAAGATCAAGCC  
AGTGTTTTGATCTGGGCTCTGAGCACAAGTCAGGAAACACCAACATATTCACACTCTCCCAGTAGGTTTCCTCAGT  
CCGATGGTGAATGGCTATTCGTAAATGGCTGGTCTGGCTCTTTGGTGTGGAGCCTTTCCAATAGCCCCATGAAA  
AGAAGCATCACCCAAGGATATTGTAAAAAGGATGTAAACAAGGAGATAGGGTAGACATTGTACTCAGTGGGCCTTG  
GGCCTAGCCCAGCTCTGAGCAGAGGACTGTGGCATTCACTGTCCTTGAGTGTTTACCTTCTTGATAACACAC  
GGCCTTCTCTTCTGGATTTTCATCAGAGATTACAGCCAGATGGGGGCTGAAGACCATCCTCTTGACCACAGAGGT  
GTGACTGTGGGAATTCCTCCCAATTTATGGTTTCCCAGAAAATCTTAGTTCCTTTTATTTATAGAATGCATGTCT  
TTTGTGTTAAGAAACCAAAGAGAAATAAAGAGAACACTCCTAAT

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**FIGURE 1123A**

AGAGAGGGAGGGCGCCACGCACCCGACTGCGGGCCGAGAGCGCGCACGCCGCGCTCCGCCCCCTGCTGCCGCCCCC  
GTGCGCCGCCGCCGCCGCCGCCGACCTTGGGAGGTGCTGCCACCACAGGTACCTGCACATGTTGTTCTTTGTTCAG  
TGCTGTCAAGTGTGTGCCAGGGTGATCCATGGTCACTTTCCGGGATGGCAGCAAGGTGACTTCGGCTGAGGATGA  
CCCTGACTGAAAGGCTGCGTGAGAAGATATCTCGGGCCTTCTACAACCATGGGCTCCTCTGTGCATCCTATCCCA  
TCCCCATCATCCTCTTCACAGGGTTCTGCATCTTAGCCTGCTGCTACCCACTGCTGAAACTCCCCCTTGCCAGGAA  
CAGGACCTGTGGAATTCACCACCCCTGTGAAGGATTACTCGCCCCCACCTGTGGACTCTGACCGCAAACAAGGAG  
AGCCTACTGAGCAGCCTGAGTGGTATGTGGGTGCCCGGTGGCTTATGTCCAGCAGATATTTGTGAAGTCCCTCAG  
TGTTTCCCTGGCACAAGAACCTCCTGGCAGTAGATGTATTTCTGTTACCTTTGTCCCGGGCATTCCAACCTGGTGG  
AGGAGATCCGGAACACGCTGCTGAGAGACAGCTCTGGGATCAGGAGCTTGGAGGAGTTGTGTCTGCAAGTGACCG  
ACCTGCTGCCAGGCCTTAGGAAGCTCAGGAACCTACTCCCTGAGCATGGATGCCTGCTGCTGTCCCCTGGGAACCT  
TCTGGCAGAATGACTGGGAACGCTTCCATGCTGATCCTGACATCATTGGGACCATCCACCAGCAGAGCCTAAAA  
CCCTGCAGACTTCAGCCACACTCAAAGACTTGTATTGTTGTTCTTGGGAAGTACAGCGGGGTGAGCCTCTACA  
CCAGGAAGAGGATGGTCTCCTACACCATCACCCCTGGTCTTCCAGCACTACCATGCCAAGTTCTTGGGCAGCCTGC  
GTGCCCCGCTGATGCTTCTGCACCCAGCCCCAACTGCAGCCTTCGGGCGGAGAGCCTGGTCCACGTGCACTTCA  
AGGAGGAGATTGGTGTGCTGAGCTCATCCCCCTTGTGACCACCTACATCATCTTGTTCCTACATCTACTTCT  
CCACGCGGAAGATCGACATGGTCAAGTCCAAGTGGGGGTGGCCCTGGCTGCCGTGGTACAGTGCTCAGCTCGC  
TGCTCATGTCTGTGGGACTCTGCACACTCTTCGGCCTGACGCCACCCTCAATGGCGGCGAGATTTTCCCCTACC  
TTGTGGTGGTTATTGGGTTAGAGAATGTGTTGGTGCTACCAAGTCTGTGGTCTCAACCCCGGTAGACCTGGAGG  
TGAAGCTGCGGATCGCCCAAGGCCTAAGCAGCGAGAGCTGGTCCATCATGAAGAACATGGCCACGGAGCTGGGCA  
TCATCCTCATCGGCTACTTCACCCTAGTGCCCGCCATCCAGGAGTTCTGTCTCTTTGCTGTGCTGGGGCTGGTGT  
CTGACTTCTTTCCTTCAGATGCTGTTTTTCACCACTGTCTGTCCATTGACATTGCGCGGATGGAGCTAGCAGACC  
TGAACAAGCGACTGCCCCCTGAGGCCTGCCTGCCCTCAGCCAAGCCAGTGGGACAGCCAACGCGCTACGAGCGGC  
AGCTGGCTGTGAGGCCGTCCACACCCACACCATCACGTTGCAGCCGTCTTCCTTCCGAAACCTGCGGCTCCCCA  
AGAGGCTGCGTGTTGTCTACTTCTTGCCCCGACCCGCTGGCACAGCGCCTCATCATGGCTGGCACCGTTGTCT  
GGATTGGCATCCTGGTATACACAGACCCAGCAGGGCTGCGCAACTACCTCGCTGCCAGGTGACGGAACAGAGCC  
CATTGGGTGAGGGAGCCCTGGCTCCCATGCCCCGTGCCTAGTGGCATGTGCCCCCAGCCACCCGGACCCCTGCCCT  
TCTCCATCTTCCCACCTGATGCCCTAAGCTACCTGAGAACCAGACGTCGCCAGGCGAGTCACCTGAGCGTGAGG  
GTCCAGCAGAGGTTGTCCATGACAGCCAGTCCAGAGGTAACCTGGGGGCTGAGGATGAGGAACCTTTGGAGGA  
AATTGTCCTTCCGCCACTGGCCGACGCTCTTCAGCTATTACAACATCACACTGGCCAAGAGGTACATCAGCCTGC  
TGCCCGTCATCCAGTCACGCTCCGCTGAACCCGAGGGAGGCTCTGGAGGGCCGGCACCCCTCAGGACGGCCGCA  
GTGCTGGCCCCCACCAGGGGCCATACCTGCTGGGCACTGGGAAGCAGGACCCAAGGGCCAGGTGGGGTGCAGG  
CCCATGGAGACGTACGCTGTACAAGGTGGCGGCGCTGGGCCTGGCCACCGGCATCGTCTTGGTGCTGCTGCTGC  
TCTGCCCTTACCGCTGCTATGCCCGCGCAACTACGGGCAGCTGGGTGGTGGGCCCGGGCGGAGGCGCGGGG  
AGCTGCCCTGCGACGACTACGGCTATGCGCCACCCGAGACGGAGATCGTGCCGCTTGTGCTGCGCGGCCACCTCA  
TGGACATCGAGTGCTGGCCAGCGACGGCATGCTGCTGGTGAGCTGCTGCCCTGGCAGGCCACGTCTGCGTGTGGG  
ACGCGCAGACCGGGGATTGCCTAACGCGCATTCCGCGCCAGGGCAGCGCCGGGACAGTGGCGTGGGCAGCGGGC  
TTGAGGCTCAGGAGAGCTGGGAACGACTTTTCAGATGGTGGGAAGGCTGGTCCAGAGGAGCCTGGGGACAGCCCTC  
CCCTGAGACACCGCCCCCGGGGCCCTCCGCCGCTTCCCTCTTCGGGGACCAGCCTGACCTCACCTGCTTAATTG  
ACACCAACTTTTCAGCGCAGCCTCGGTCTCACAGCCCACTCAGCCCCGAGCCCCGGCACCGGGCGGTCTGTGGCC  
GCTCTCGGGACTCCCCAGGCTATGACTTCAGCTGCCTGGTGACGCGGTGTACCAGGAGGAGGGGCTGGCGGCCG  
TCTGCACACCAGCCCTGCGCCACCCCTCGCTGGGCCCGGTGCTGTCCAGGCCCTGAGGACGAGGGTGGCTCCC  
CCGAGAAAGGCTCCCCCTCCCTCGCCTGGGCCCCAGTGCCGAGGGTTCCATCTGGAGCTTGGAGCTGCAGGGCA  
ACCTCATCGTGGTGGGGCGGAGCAGCGCGGCTGGAGGTGTGGGACGCCATTGAAGGGGTGCTGTGCTGCAGCA  
GCGAGGAGGTCTCCTCAGGCATTACCGCTCTGGTGTCTTGGACAAAAGGATTGTGGCTGCACGGCTCAACGGTT  
CCCTTGATTTCTTCTCCTTGGAGACCCACACTGCCCTCAGCCCCCTGCAGTTTAGAGGGACCCAGGGCGGGGCA  
GTCCCCCTGCCTCTCCAGTGTACAGCAGCAGCGACACAGTGGCCTGTCACTGACCCACACAGTGCCCTGTGCAC  
ACAAAAACCCATCACAGCCCTGAAAGCGCTGCTGGGCGCTTGGTGACTGGGAGCCAAGACCACACACTGAGAG  
TGTTCCGTCTGGAGGACTCGTGCTGCCTCTTACCCTTCAGGGCCACTCAGGGGCCATCACGACCGTGTACATTG

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**FIGURE 1123B**

ACCAGACCATGGTGCTGGCCAGTGGAGGACAAGATGGGGCCATCTGCCTGTGGGATGTACTGACTGGCAGCCGGG  
TCAGCCATGTGTTTGCTCACCGTGGGGATGTCACCTCCCTTACCTGTACCACCTCCTGTGTCATCAGCAGTGGCC  
TGGATGACCTCATCAGCATCTGGGACCGCAGCACAGGCATCAAGTTCTACTCCATTTCAGCAGGACCTGGGCTGTG  
GTGCAAGCTTGGGTGTCATCTCAGACAACCTGCTGGTGACTGGCGGCCAGGGCTGTGTCTCCTTTTGGGACCTAA  
ACTACGGGGACCTGTTACAGACAGTCTACCTGGGGAAGAACAGTGAGGCCAGCCTGCCCCGCCAGATCCTGGTGC  
TGGACAACGCTGCCATTGTCTGCAACTTTGGCAGTGAGCTCAGCCTGGTGTATGTGCCCTCTGTGCTGGAGAAGC  
TGGACTGAGCGCAGGGCCTCCTTGCCCAGGCAGGAGGCTGGGGTGCTGTGTGGGGGCCAATGCACTGAACCTGGA  
CTTGGGGGAAAGAGCCGAGTATCTTCCAGCCGCTGCCTCCTGACTGTAATAATATTAAACTTTTTTAAAAAACCA  
TATCATCATCTGTCAGGCACTTTGGGA

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**FIGURE 1124**

MTLTERLREKISRIFYNHGLLCASYPIPIILFTGFCILACCYPLLKLPLPGTG PVEFTTPVKDYSPPPVDS DRKQ  
GEPT EQPEWYVGAPVAYVQQIFVKSSVFPWHKNLLAVDVFRSPLSRA FQLVEEIRNHVLRDSSGIRSLEELCLOV  
TDLLPGLRKLRLNLLPEHGCLLLSPGNFWQNDWERFHADPDIIGTIHQHEPKTLQTSATLKDLLFGVPGKYSGVSL  
YTRKRMVSYTITLVFQHYHAKFLGSLRARLMLLHPSPNCSLRAESLVHVHFKEEIGVAELIPLVTITYIILFAYIY  
FSTRKIDMVKSKWGLALAAVTVLSSLLMSVGLCTLFGLTPTLNGGEIFPYLVVVIGLENVLVLT KSVVSTPVDL  
EVKLRIAQGLSSESWSIMKNMATELGIIILIGYFTLVPAIQEFCLFAVVG LVSDFFLQMLFFTTVLSIDIRRMELA  
DLNKRLPPEACLPSAKPVGQPTRYERQLAVRPSTPHTITLQPSFRNLRLPKRLRVVYFLARTRLAQRLIMAGTV  
VWIGILVYTDPAGLRNYLAAQVTEQSP LGE GALAMPVPSGMLPPSHPDPAFSIFPPDAPKLPENQTS PGESPER  
GGPAEVVHDSVPVEVTWGPEDDEELWRKLSFRHWPTLFSYYNITLAKRYISLLPVIPVTLRLNPREALEGRHPQDG  
RSAWPPPGPIPAGHWEAGPKGPGGVQAHGDVTLYKVAALGLATGIVLVLLLCLYRVLCPRNYGQLGGGPGRRRR  
GELPCDDYGYAPPETEIVPLVLRGHLMDIECLASDGMLLVSCCLAGHVCVWDAQTGDCLTRIPRPGQRRDSGVGS  
GLEAQESWERLSDGGKAGPEEPGDSPLRHRPRGPPPPSLFGDQPDLTCLIDTNFSAQPRSSQFTQPEPRHRAVC  
GRSRDSPGYDFSCLVQRVYQEEGLAAVCTPALRPPSPGPVLSQAPEDEGGSP EKGSPSLAWAPSAEGSIWSLELQ  
GNLIVGRSSGRLEVWDAIEGVLCCSSEEVSSGITALVFLDKRIVAARLNGSLDFFSLEHTALSPLQFRGTPGR  
GSSPASPVYSSSDTVACHLTHTVPCA HQPITALKAAAGRLVTGSQDHTLRVFRLEDSCCLFTLQGHSGAITTVY  
IDQTMVLASGGQDGAICLWDVLTGSRVSHVFAHRGDVTSLTCTTSCVISSGLDDLISIWDRSTGIKFYSIQQDLG  
CGASLGVISDNLLVTGGQGCVSFWDLNYGDLLQTVYLGKNSEAQPARQILVLDNAAIVCNFGSEL SLVYVPSVLE  
KLD

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**FIGURE 1125**

GTTCCTTCGCCCCGGTCCCTGCCGCGCACAGGCCTCGGGGTGCGCGGGAGCACGATGGCGGCCGCTAGGAGACTC  
ATGGCGCTGGCCGCGGCATCTCTCCGCGCCTGCAGCCGCTGGGTCCCCGCGCTGCTGGGCGACAGGGTCGCTCG  
CGCGGCTTCTCTTCAAGCTGCGCCCCACCCCGACCACACCAAGGAAGCCGCGAGGCCGAGTCAGGGATGGCCCCC  
GGCGGGCCTGGGGAAGGCGACGGAAGCTTGGTGAACGCTTCTAGGGACCTATTAAAAGAGTTCCACAGCCCCAAA  
AATCTTCTCAACAGTGTGATTGGAAGAGCCCTCGGCATCTCACATGCAAAAGACAAACTAGTCTACGTGCACACA  
AATGGACCGAAGAAAAAGAAAGTCACACTGCACATAAAATGGCCCAAGAGCGTGGAGGTAGAAGGCTATGGCAGC  
AAGAAGATCGATGCTGAGCGGCAGGCTGCAGCTGCAGCCTGCCAGCTGTTCAAGGGTTGGGGTCTGCTAGGTCCC  
CGGAATGAGTTGTTTGACGCAGCCAAATACCGAGTGCTAGCTGATCGCTTTGGCTCCCCCTGCCGACAGCTGGTGG  
CGTCCGGAACCCACCATGCCCCCTACTTCCTGGCGGCAGCTGAATCCAGAGAGTATTGACACAGGGGGACCTGGG  
GGCCTATCCCGCTCTTTAGGCCGGAAGAAGAGGAGGACGAGGAGGAAGAGCTAGAAGAAGGGACCATAGATGTT  
ACCGACTTCTTGTCCATGACCCAGCAGGATTCCCACGCTCCACTCAGGGACTCAAGGGGGAGTTCCTTTGAGATG  
ACAGATGACGACAGTGCCATTAGGGCTCTGACCCAGTTTCCACTTCCCAAGAACCTTCTGGCCAAGGTGATTGAG  
ATTGCAACGTCATCCTCCACAGCTAAGAACCTCATGCAGTTCCATACTGTGGGCACCAAGACCAAGCTGTCTACA  
CTCACCTGCTCTGGCCCTGCCCCATGACCTTTGTTGCCAAAGGGCGCCGCAAAGCAGAGGCTGAGAATAAGGCG  
GCAGCCTTGGCCTGCAAGAACTGAAGAGCCTGGGCCTGGTGGACAGGAACAACGAACCGCTTACACACGGTTAC  
GGAGCCGATGGCTGACGATATTTTCATGGCAGTCAAGTCCAATGGCAGCGTCTTCGTCCGGGACTCCTCTCAGGTGC  
ACCCGCTAGCTGTGCTGCTGCTGACCGACGGGGACGTGCACATCCGTGATGACGGGCGCCGGGCCACCATCTCAC  
TGAGCGACAGTGACCTGCTGCGGCTGGAGGGTGAATCGCGTACCCTGCGGCTGCTGAAGGAGCTGCGGCGGGCCC  
TGGGCCGATGGTGGAGCGGAGCCTGCGCAGCGAGCTGGCTGCACTTCCCCCAGCGTACAGGAGGAGCACGGGC  
AGCTGCTTGCCTACTGGCAGAGCTGCTGCGAGGACCCTGTGGCAGCTTTGATGTGCGCAAGACAGCTGACGACT  
GAGCCCTGCTTCTGCTGGGGCTGTGTACAGAGTGCAAATGTTTATTTAAAATAAAGTTCTATTTATCCCTTGTG

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**FIGURE 1126**

MAAARRLMALAAGISPRLOPLGPRAAGRQGRSRGFSSSCAHPDHTKEAAEAESGMAPGGPGEGDGS LVNASRDLL  
KEFPQPKNLLNSVIGRALGISHAKDLVYVHTNGPKKKKVTLHIKWPKSVEVEGYGSKKIDAERQAAAAACQLFK  
GWGLLGPRNELFDAKYRVLADRF GSPADSWWRPEPTMPPTSWRQLNPFESIRPGGPGGLSRSLGREEEDEEEEL  
EEGTIDVTDFLSMTQQDSHAPLRDSRGSSFEMTDDDSAIRALTQFPLPKNLLAKVIQIATSSSTAKNLMQFHTVG  
TKTKLSTLTLLWPCPMTFVAKGRRKAEAEENKAAALACKKLKSLGLVDRNNEPLTHGYGADG



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**FIGURE 1127**

CGAAAGGCCGGCCTGGCTGCGACAGCCTGGGTAAGAGGTGTAGGTTCGGCTTGGTTTTCTGCTACCCGGAGCTGGG  
CAAGCGGGTGGGAGAACAGCGAAGACAGCGTGAGCCTGGGCCGTTGCCCTCGAGGCTCTCGCCCGGCTTCTCTTGC  
CGACCCGCCACGTTTGTGGATTAACTTTAGGTTGCCGGCGCCCGCCCGCTGGCCTCGCGGTGTGAGA  
GGGAAGCACCCGTGCCTGTGGCTGGTGGCTGGCGCCTGGAGGGTCCGCACACCCGCCCGGCCGCGCCGCTTGCCC  
GCGGCAGCCGCGTCCCTGAACCGCGGAGTCGTGTTGTGTTGACCCGCGGGCGCCGGTGGCGCGCGGCCGAGGC  
CGGTGTCGGCGGGCGGGCGGGTCGCGGCGGAGGCAGAGGAAGAGGGAGCGGGAGCTCTGCGAGGCCGGGCGCCG  
CCATGGAACTGGGCCCGGAGCCCCCGCACCCGCCCGCCTGCTCTTCGCCTGCAGCCCCCTCCCGCGTCGCAGC  
CCGTGCTGAAGGCGCTATTTGGCGCTTCAGCCGCCGGGGGACTGTGCTGCTCACCACCTGACCGTCACTATGG  
ACCAGCTGCAGGGTCTGGGCAGTGATTATGAGCAACCACTGGAGGTGAAGAACAACAGTAATCTGCAGAGAATGG  
GCTCCTCCGAGTCAACAGATTTCAGGTTTCTGTCTAGATTCTCCTGGGCCATTGGACAGTAAAGAAAACCTTGAAA  
ATCCTATGAGAAGAATACATTCCCTACCTCAGAAGCTGTTGGGATGTAGTCCAGCTCTGAAGAGGAGCCATTCTG  
ATTCTCTTGACCATGACATCTTTAGCTCATCGACCCAGATGAGAACAAGGAAAATGAAGCCTTTGAGTTAAGA  
AGCCAGTAAGACCTGTATCTCGTGGCTGCCTGCACTCTCATGGACTCCAGGAGGGTAAAGATCTCTTCACACAGA  
GGCAGAACTCTGCCCCAGCTCGGATGCTTTCCCTCAAATGAAAGAGATAGCAGTGAACCAGGGAATTTCACTCCTC  
TTTTACACCCAGTCACCTGTGACAGCCACTTTGTCTGATGAGGATGATGGCTTCGTGGACCTTCTCGATGGAG  
AGAATCTGAAGAATGAGGAGGAGACCCCTCGTGCATGGCAAGCCTCTGGACAGCTCCTCTCGTCATGAGAACTA  
CAAACCTTGACAACCGATGCAAGCTGTTTGACTCCCTTCCCTGTGTAGCTCCAGCACTCGGTCACTGTTGAAGA  
GACCAGAACGATCTCAAGAGGAGTCTCCACCTGGAAGTACAAAGAGGAGGAAGAGCATGTCTGGGGCCAGCCCCA  
AAGAGTCAACTAATCCAGAGAAGGCCCATGAGACTCTTCATCAGTCTTTATCCCTGGCATCTTCCCCCAAAGGAA  
CCATTGAGAACATTTTGGACAATGACCAAGGGACCTTATAGGAGACTTCTCCAAGGGTTATCTCTTTCATACAG  
TTGCTGGGAAACATCAGGATTTAAAATACATCTCTCCAGAAATTATGGCATCTGTTTTGAATGGCAAGTTTGCCA  
ACCTCATTAAGAGTTTGTATATCATCGACTGTGATACCCATATGAATACGAGGGAGGCCACATCAAGGGTGCAG  
TGAACCTGCACATGGAAGAAGAGGTTGAAGACTTCTTATTGAAGAAGCCCATTGTACCTACTGATGGCAAGCGTG  
TCATTGTTGTGTTTCACTGCGAGTTTTCTTCTGAGAGAGGTCCCCGCATGTGCCGGTATGTGAGAGAGAGAGATC  
GCCTGGGTAATGAATACCCCAAACCTCCACTACCCTGAGCTGTATGTCCTGAAGGGGGGATACAAGGAGTTCTTTA  
TGAAATGCCAGTCTTACTGTGAGCCCCCTAGCTACCGGCCCATGCACCACGAGGACTTTAAAGAAGACCTGAAGA  
AGTTCGACCAAGAGCCGGACCTGGGCAGGGGAGAAGAGCAAGAGGGAGATGTACAGTCGTCTGAAGAAGCTCT  
GAGGGCGGCAGGACCAGCCAGCAGCAGCCCAAGCTTCCCTCCATCCCCCTTTACCCTCTTTGCTGCAGAGAACT  
TAAGCAAAGGGGACAGCTGTGTGACATTTGGAGAGGGGGCTGGGACTTCCATGCCTTAAACCTACCTCCACAC  
TCCAAGGTTGGAGCCCAGGGCATCTTGCTGGCTACGCCTCTTCTGTCCCTGTTAGACGTCTCCGTCCATATCA  
GAACTGTGCCACAATGCAGTTCTGAGCACCGTGTCAAGCTGCTCTGAGCCACAGTGGGATGAACCAGCCGGGGCC  
TTATCGGGCTCCAGCCATCTCATGAGGGGAGAGGAGACGGAGGGGAGTAGAGAAGTTACACAGAAATGCTGCTGG  
CCAAATAGCAAAGA

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**FIGURE 1128**

GAATTCCGGCCATGAAAGACCCAAAGGAATGGCCACTCCCTGGGGCGGTGGTCACTGGTGCTCCTGCTGCTGGGCC  
TGGTGATGCCTCTGGCCATCATTGCCCAGGTCCTCAGCTACAAGGAAGCTGTCTTCGTGCTATAGATGGCATCA  
ACCAGCGGTCTCTGGATGCTAACCTCTACCGCCTCCTGGACCTGGACCCCAGGCCCACGATGGATGGGGACCCAG  
ACACGCCAAAGCCTGTGAGCTTCACAGTGAAGGAGACAGTGTGCCCCAGGACGACACAGCAGTCACCAGAGGATT  
GTGACTTCAAGAAGGACGGGCTGGTGAAGCGGTGTATGGGGACAGTGACCCTCAACCAGGCCAGGGGCTCCTTTG  
ACATCAGTTGTGATAAGGATAACAAGAGATTTGCCCTGCTGGGTGATTTCTTCCGGAAATCTAAAGAGAAGATTG  
GCAAAGAGTTTAAAAGAATTGTCCAGAGAATCAAGGATTTTTTGCGGAATCTTGTACCCAGGACAGAGTCCTAGT  
GTGTGCCCTACCCTGGCTCAGGCTTCTGGGCTCTGAGAAATAAACTATGAGAGCAATTTCAAAAAAAAAAAAAA  
AAAAAACCGGAATTC

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**FIGURE 1129**

MKTQRNGHSLGRWSLVLLLLGLVMPLAIIAQVLSYKEAVLRAIDGINQRSSDANLYRLLDLDP RPTMDGDPDTPK  
PVSFTVKETVCPRTTQQSPEDCDFKKDGLVKRCMGTVTLNQARGSFDISCDKDNKRFALLGDFFRKSKEKIGKEF  
KRIVQRIKDFLRNLVPTES

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**FIGURE 1130**

CGTGCGTGCGCGCGCAGATGTGGGCCCCGCGGGAGCAGCTACTGGGCTGGACTGCGGAAGCTCTGCCTGCCAAGG  
ATTCTGCCTGGCCCTGGGAAGAGAAGCCTAGATATCTGGTTCCAGTGGCAGATGGGGCACTGGCCAGAGGGGTTA  
GGAGGATTGGACTCTCCTTGGGAGTCGCTGTGATACGGCCTTCAATTATAGTTGTCTTTCTTCTTGGATTTC  
ACCACTTCCCTGAAACCACGAGCTGGAAGCTGAGACCAGCTGGTCACTGCTGGGCTGCTAGGAGCCACACGGA  
AGCTGCCACAGCCAGACACCAGAGCCTCAAAGGCCGCCATCTTGAAAAACCAACCCTGACCTCCACAATGATTG  
ATTTTCAAATGTTGAACCAGCTTTGCAGAACTATAATAAACCCAAGTGTGATAACCCTGTCTCAAGTATTGTGGTG  
ATCAAATAGGACCAGTGACTTTCGAGGATGTGGCTGTGCTTTTCACTGAGGCAGAGTGGAAGAGACTGAGCCTTG  
AGCAGAGGAACCTATACAAAGAAGTGATGCTGGAAAATCTCAGGAATCTGGTCTCATTGGAATCAAAGCCAGAAG  
TCCATACCTGCCCTTCTTGCCCTCTGGCCTTTGGCAGTCAGCAGTTCCCTCAGCCAAGATGAGCTACACAATCATC  
CTATTCCAGGTTTCCATGCAGGAAATCAACTCCACCCAGGAAATCCCTGCCCAGAGGATCAGCCACAGTCACAAC  
ATCCTTCTGATAAAAATCACAGGGGGGCTGAAGCAGAAGATCAACGAGTGGAAGGAGGCGTCAGACCCTTGTTTT  
GGAGTACAAATGAAAGGGGGGCTTTAGTGGGTTTCTCTAGCCTGTTCCAGAGACCACCAATAAGCTCTTGGGGAG  
GCAACAGAATATTAGAGATACAGCTCAGTCCAGCCCAGAATGCAAGCTCTGAGGAAGTAGACAGAATTTCCAAGA  
GGGCAGAAACCCAGGGTTTGGAGCAGTCACGTTTGGGGAGTGTGCACTAGCTTTTAACCAGAAGTCAAACCTGT  
TCAGACAGAAGGCAGTCACAGCAGAAAAATCTTCAGACAAAAGGCAGTCACAGGTGTGCAGGGAGTGTGGGCGAG  
GCTTTAGCAGGAAGTCACAGCTCATCATACACCAGAGGACACACACAGGAGAAAAGCCTTATGTCTGCGGAGAGT  
GTGGGCGAGGCTTTATAGTTGAGTCAGTCCCGCAACCACCTGAGTACACACTCCGGGGAGAAACCTTATGTGT  
GCAGCCATTGTGGGCGAGGCTTTAGCTGCAAGCCATACCTCATCAGACATCAGAGGACACACACAAGGGAGAAAT  
CGTTTATGTGCACAGTGTGTGGGCGAGGCTTTCGTGAAAAGTCAGAGCTCATTAAAGCACCAGAGGTGTCAAGTGA  
CGGTCCCCTTGGAGGAATGGTCTTTGCATCTGACTACTTCTTCTGCAACTGTGTTCTTCCATTAGCTTCCATGA  
CACTCTCCTGCTTTATTTTTTTTCTACATCTCTAGCCTTTGCTGTTTCTCTCTCTACCCACCTTTAGATTTTACT  
CAGAGTTCAGTCTCCAGCCCTACAATCTGAGGGACACCTTTACCAGGTCCCCTTCTTAACCTCCAGTCCCAAAT  
CCAAGATTCTTTAACCACACTCTAAAAGTTCTTCAGACTCAGGACTTAAACATAGCCACGCCACCTTGGCCTTCA  
ATGACAGGGATCTAGCAATGCTGCATCATCAGCCTTCCAATACCAGGTTTAAGGGTATTTTAAACACAGCTCCTC  
TTAAATCCTCCAATCTCAGTACCCAGTGTTTTAGCCATGCTCGGGTGGCTAAATTACATCCAGGAATGGTGCCAG  
GGCCTTTAGCCATTTGTCTCTCCTCACACTCCAGGGCCCATATGGCCCAGGTTCTGACAGTTTGCTTACTCCCT  
TGGGCTGGGGCTAGCCCTACCTGATACCCTGTGTCAATGAGTGTACCTTGGAGAGCTATCCACTCAGGCCCCAGT  
GCCTCTATTTGCTAAGGGACTCTGCCACAGAAAAGAAGGGGAGAGATGTTTATGTAACCTCAAATACTTAGGCT  
TGGTTTTGATGCTAGAGAGGAAAAAGGACTTGGAGAGAGAGAAGGAATGGCTGGTCCAGAGGCTTTTGTCCACTC  
CCTCTCACTGGAAGTGGTTGATCTCCAGGGAATCCCCAAGGTTAGCCTGCTTAGGGGAAGGGCTAGGGGTACCTG  
GAATGTAGGATCTCCCCATGCCTGGCCTACCACCCTAATGTGTCTGGAATTGGTGGGTTCTTGGTCTTGCTGAC  
TTCAAGAATGAAGCCGTGGACCCTCACGGTGAGTGTTACAATTCCTTAAA

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**FIGURE 1131**

CAGCGTGCCTGCCAGTGTAGAGCCGGTGGAGCAGCTGGGCTCGGCGCTGAGGTTTCGCCCTGGCTACAACGACCC  
CATGTCAGGGTTCGGAGCGACCTTGGCCGTTGGCCTGACCATCTTTGTGCTGTCTGTCGTCACCTATCATCATCTG  
CTTCACCTGCTCCTGCTGCTGCCTTTACAAGACGTGCCGCCGACCACGTCCCTCCAAGTGTGCCGCCAGCTACC  
CTGGACCAAGCTACCAGGGCTACCACACCATGCCGCCTCAGCCAGGGATGCCAGCAGCACCCCTACCCAATGCAGT  
ACCCACCACCTTACCCAGCCCAGCCCATGGGGCCACCGGCCTACCACGAGACCCTGGCTGGAGGAGCAGCCGCGC  
CCTACCCCGCCAGCCAGCCTCCTTACAACCCGGCCTACATGGATGCCCCGAAGGCGGCCCTCTGAGCATTCCCTG  
GCCTCTCTGGCTGCCACTTGGTTATGTTGTGTGTGTGCGTGTGAGTGGTGTGCAGGCGCGGTTCCCTTACGCCCCATG  
TGTGCTGTGTGTGTCCAGGCACGGTTCCCTTACGCCCCATGTGTGCTGTGTGTGTCTGCTGTATATGTGGCTTC  
CTCTGATGCTGACAAGGTGGGGAACAATCCTTGCCAGAGTGGGCTGGGACCAGACTTTGTTCTCTTCCTCACCTG  
AAATTATGCTTCCTAAAATCTCAAGCCAAACTCAAAGAATGGGGTGGTGGGGGGCACCCCTGTGAGGTGGCCCCTG  
AGAGGTGGGGGCCTCTCCAGGGCACATCTGGAGTTCTTCTCCAGCTTACCCTAGGGTGACCAAGTAGGGCCTGTC  
ACACCAGGGTGGCGCAGCTTTCTGTGTGATGCAGATGTGTCTGGTTTCGGCAGCGTAGCCAGCTGCTGCTTGAG  
GCCATGGCTCGTCCCCGGAGTTGGGGGTACCCGTTGCAGAGCCAGGGACATGATGCAGGCGAAGCTTGGGATCTG  
GCCAAGTTGGACTTTGATCCTTTGGGCAGATGTCCCATGTCTCCCTGGAGCCTGTGCCTGTTGGGGATCAGG  
CAGCCTCCTGATGCCAGAACACCTCAGGCAGAGCCCTACTCAGCTGTACCTGTCTGCCTGGAETGTCCCCTGTCC  
CCGCATCTCCCCTGGGACCAGCTGGAGGGCCACATGCACACACAGCCTAGCTGCCCCCAGGGAGCTCTGCTGCCC  
TTGCTGGCCCTGCCCTTCCCACAGGTGAGCAGGGCTCCTGTCCACCAGCACACTCAGTTCTCTTCCCTGCAGTGT  
TTTCATTTTATTTTAGCCAAACATTTTGCCTGTTTTCTGTTTCAAACATGATAGTTGATATGAGACTGAAACCCC  
TGGGTTGTGGAGGGAAATTGGCTCAGAGATGGACAACCTGGCAACTGTGAGTCCCTGCTTCCCGACACCAGCCTC  
ATGGAATATGCAACAACCTCTGTACCCAGTCCACGGTGTCTGGCAGCAGGGACACCTGGGCCAATGGGGCCATC  
TGGACCAAAGGTGGGGTGTGGGGCCCTGGATGGCAGCTCTGGCCCAGACATGAATACCTCGTGTTCCTCCTCCT  
CTATTACTGTTTACCAGAGCTGTCTTAGCTCAAATCTGTTGTGTTTCTGAGTCTAGGGTCTGTACACTTGTTTA  
TAATAAATGCAATCGTTTGG

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**FIGURE 1132A**

AGCGAACCATCGGGGCGGCCGGGAGCCATGTTGGAGCGGCGGGAGGCGGCAGCAGCGTCGGGGATGCTGTGGTGG  
GGGCGGAAAAAGCCAGGGCCGACGCCGGAGGGGCTCCGGCCGCGGAGTAGATGGTGCCAGAGGGCGGCGGGG  
TGCAGAGAGACAGGCGGAGGGGCGGGGGCCCGGGGCGGCGGCAGGGGCCCCGGGAGGGGGCCGAGCGGCGGGGCC  
AGCCCCAAGGCCCCGACCGGGGCGGGGGCGGTGGAGGCCGTGCAGGGAGGCGGGAGATGATGTCGAGGCGGCGGC  
CGTGGCGGGGCTCGGGGAACGGTCGACCCCCATACTCCTGCTCCTTCTCCTCTCTTTGTTCCCCCTCAGCCAGG  
AGGAGCTGGGGGGCGGTGGGCACCAAGGCTGGGACCCAGGCTTAGCTGCCACTACGGGGCCAAGGGCGCATATCG  
GTGGCGGAGCCTTAGCTCTTTGTCCGGAGTCTTCCGGGGTCCGGGAGGATGGGGGGCTGGCCTGGGGGTCAGGG  
AGCCTATCTTCGTGGGGCTCCGAGGGAGAAGGCAAAGCGCCCCGAATAGTCGAGGGCCCCCTGAGCAGCCGAATG  
AGGAGCTGGGGATTGAACACGGCGTCCAGCCATTGGGCAGCCGCGAACGAGAGACAGGACAGGGACCAGGGTCTG  
TGTTATACTGGCGCCAGAGGTCTCCTCTTGCGGGCGGACAGGACCTTTGCAAAGAGGTAGTCTGTCACCAGGGG  
CTCTGTCTCAGGGGTCCCGGGCTCGGGGAACAGCTCGCCCCCTCCCTTCAGACTTTTGTATTCCGCACCACGGTC  
CCAAGCCGGTGTCTCTCCAGCGGAACGCTGGGACAGGCTCCCGCAAAGAGTGGGCACCGCGCGCTGCTGTGGGG  
AATTATGGGCAACAGGGAGCAAGGGTCAGGGCGAGAGAGCCACGACATCCGGAGCAGAAAGGACAGCCCCCGGC  
GGAACGTGTCTTCCAGGGGCTCGGGATCTGGCCCCGAGCTGGATTACGACACACGACGGCGAGGACAGCTCCTG  
CATCAGGTTACGACCCCCGCGAGTCTCGGACAGCTCCCGAGCCGGCGCCCAAGCGCATGCGCTCCCGGGGTCTCT  
TCCGCTGCCGCTTCTCTCCCGCAGCGCCCCGGGCCGCTCCCGGGGACTCCCGGCCCTGCTGAAGCCAGGAAAG  
TAACCTCGGCGAACCGGGCAGCCTTTCGTGCGCGCCGCAAACCGCCACCCGAGTTTCCGCGAGTACAACCTACCAGA  
CGCTGGTGCCGGAATGAGGCAGCAGGACCCGCGGTGCTACGCGTGGTTGCTCAGGACCCGGACGCCGCGGAGG  
CCGGGCGCCTAGTCTACTCGCTGGCGGCACCTCATGAACAGCGCTCGCTGGAGCTGTTACGATCGACCCGCGAGA  
GCGGCCTTATCCGTACGGCGGCAGCTCTGGACCGCGAGAGCATGGAGCGTCACTACCTGCGTGTGACCGCGCAGG  
ACCACGGGTGCGCGCGCTCTCGGCCACCACGATGGTGGCGGTGACAGTAGCCGACCGCAACGACCTCGCCGG  
TTTTTGAGCAAGCGCAGTACCGGGAGACCTTTCGCGAGAATGTGGAGGAGGGCTACCCTATCCTGCGCTGCGTG  
CCACTGACGGCGACGCGCCCCCAACGCCAACCTGCGCTACCGCTTCGTGGGGCCGCCAGCTGCGCGCGCTGCAG  
CTGCCGCGCCTTCGAGATTGATCCACGCTCCGGCCTCATCAGCACCAGCGGCCGAGTGGACCGCGAGCACATGG  
AAAGCTATGAGCTGGTGGTGGAAAGCCAGCGACCAGGGCCAGGAACCCGGGCCGCGCTCGGCCACTGTGCGCGTAC  
ACATAACTGTGCTAGACGAGAACGACAATGCTCCTCAGTTCAGCGAGAAGCGCTACGTGGCGCAGGTGCGCGAGG  
ATGTGCGCCCCACACAGTCGTGCTGCGCGTACCGGCCACTGACCGGGACAAGGACGCCAACGGATTGGTGCCT  
ACAACATCATCAGTGGCAATAGCCGTGGACACTTTGCCATCGACAGCCTCACTGGCGAGATCCAGGTGGTGGCAC  
CTCTGGACTTCGAGGCAGAGAGAGATATGCCTTGCATCAGGGCGCAGGATGCTGGCCGGCCACCGCTGTCCA  
ACAACACGGGCTGGCCAGCATCCAGGTGGTGGACATCAATGACCACATTCCTATTTTGTGACGACGCCCTTCC  
AAGTTTCTGTCTTGGAAATGCTCCCTTGGGTCACTCAGTCATCCACATTCAGGCAGTCGATGCAGACCATGGGG  
AGAATGCCAGATTGGAGTACTCCCTAAGTGGTGGCACCTGATACTCCTTTTGTGATAAACAGCGCCACTGGCT  
GGGTCTCTGTGAGTGGTCCCTGGACCGTGAAGTCTGTGGAGCATTCTTTTGGTGTGGAGGCTCGAGACCATG  
GCTCACCCCCACTCTCTGCCTCAGCCAGTGTACCGTGACTGTGCTGGACGTTAATGACAATCGGCCTGAGTTCA  
CAATGAAGGAGTACCACCTACGACTGAATGAGGATGCAGCTGTGGGCACCAGTGTGGTCAGCGTGACCGCAGTAG  
ACCGTGATGCCAACAGTGCCATCAGCTACAGGATCACAGGCGGCAACACCCGGAATCGCTTTGCCATCAGCACCC  
AGGGGGGTGTGGGTCTGGTGACTCTGGCTCTGCCACTGGACTACAAGCAGGAACGCTACTTCAAGCTGGTACTAA  
CTGCATCTGACCGTGCCCTTCATGATCACTGCTATGTGCACATCAACATCACAGATGCCAACACTCATCGGCCGG  
TCTTTCAAAGTGCCCACTACTCAGTGAGTGTGAATGAAGATCGGCCAATGGGTAGCACCATAGTGGTCATCAGTG  
CCTCTGATGATGACGTGGGTGAGAATGCTCGTATCACCTATCTCCTGGAGGACAACCTGCCCCAGTTCCGCATTG  
ATGCAGACTCAGGAGCCATTACATTACAGGCCCCATTAGACTATGAGGACCAGGTGACCTACACCCTGGCTATCA  
CAGCTCGGGACAATGGCATCCACAGAAGGCAGACACTACTTATGTGGAGGTGATGGTCAATGACGTGAATGACA  
ATGCTCCACAATTTGTGGCCTCCCACTATACAGGGCTGGTCTCTGAGGATGCCCCACCTTTACCAGTGTCTGTC  
AGATCTCAGCCACTGACCGGGATGCTCATGCCAATGGCCGGGTCCAGTACACTTCCAGAATGGTGAAGATGGGG  
ATGGAGATTTTACCATTGAGCCACCTCTGGAATTGTCCGTACAGTAAGGCGGCTAGACCGGGAGGCAGTATCAG  
TGTATGAGTTGACTGCCTACGCGAGTGACAGAGGTGTGCCCCACTCCGGACTCCAGTCAGTATCCAGGTGATGG  
TGCAGGATGTGAACGACAATGCACCTGTCTTCCAGCTGAGGAGTTTGAAGTGCGGGTGAAAGAGAATAGCATTG  
TGGGCTCAGTGGTGGCCAGATCACTGCAGTGGACCCTGACGAAGGCCCAATGCCCATATAATGTACCAGATCG

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**FIGURE 1132B**

TGGAGGGGAACATCCCTGAGCTGTTCCAAATGGACATCTTCTCTGGAGAACTGACGGCACTCATTGACCTAGACT  
ATGAGGCTCGCCAAGAATATGTGATTGTGGTGCAGGCCACATCTGCTCCTTTGGTCAGCCGGGCCACTGTGCACG  
TCCGCCTGGTTGACCAGAAATGACAACAGCCCTGTGCTCAACAACTTCCAGATCCTCTTCAACAACTATGTATCCA  
ACCGTTCAGACACCTTCCCGTCGGGCATTATTGGGCGCATCCCAGCTTATGACCCCGATGTCTCCGACCACCTCT  
TCTACTCCTTTGAGCGTGGCAATGAGCTGCAGCTGCTGGTAGTCAACCAGACCAGTGGGGAGCTGCGACTCAGCC  
GAAAGCTAGACAATAACCGCCCACTGGTGGCCTCCATGTTGGTGAAGTGTACAGATGGCCTGCACAGCGTGACGG  
CGCAGTGTGTGCTGCGCGTGGTCATCATCACGGAGGAGTTGCTGGCCAACAGCCTGACCGTGCGCCTTGAGAACA  
TGTGGCAGGAGCGCTTCTGTACCGCTGCTGGGCCGCTTCTCGAGGGCGTGGCTGCGGTGCTCGCTACGCCCG  
CTGAGGACGTCTTCATCTTCAACATCCAGAACGACACAGACGTAGGGGGCACCGTGCTCAATGTGAGTTTCTCGG  
CGCTAGCTCCACGTGGGGCCGGGGCGGGCGCTGCAGGGCCCTGGTTTCACTCCGAGGAGCTGCAGGAGCAGTTGT  
ACGTGCGCCGGGCGGGCGCTGGCGGCTCGCTCCCTGCTCGACGTACTGCCCTTCGACGACAACGTGTGCCTGCGAG  
AGCCCTGTGAGAACTACATGAAAATGCGTGTCCGTGCTCCGCTTTGACTCGTCCGCGCCCTTCTGGCCTCGGCCT  
CCACGCTGTTCCGACCCATCCAGCCCATCGCTGGCCTGCGCTGCCGCTGCCCGCCCGGATTACGGGAGACTTTT  
GCGAGACCGAGCTCGACCTCTGCTACTCCAACCCATGTGCAACGGCGGAGCCTGCGCGCGGCGGAGGGAGGCT  
ACACGTGCGTCTGCCGCCCCGCGCTTACCAGGAGAGGACTGCGAGCTGGACACCGAGGCCGGCCGCTGCGTGCCGG  
GCGTCTGCCGCAACGGGGGACCTGCACCGACGCGCCCAACGGCGGCTTTGCTGCCAGTGCCCGGCAGGCGGCG  
CCTTCGAGGGCCCCGCGCTGCGAGGTGGCTGCGCGCTCCTTCCCGCCAGTTTCGTTTCGTCACTGTTTCGCGGCTGC  
GGCAGCGATTCCACCTTACGCTGTCCCTCTCGTTTCGCGACAGTGCAGCAGAGCGGGCTGCTCTTCTACAACGGGC  
GCCTGAACGAGAAGCAGCACTTCTTGGCCCTGGAAGTCTGGCTGGCCAAGTGGGCTCACATATTCACGGGTG  
AATCCAACACCGTGGTCAGCCCCACAGTTCCAGGGGGCTTGAGTGACGGGCAATGGCATAAGTGCATCTGAGAT  
ACTACAACAAGCCCCGGACAGATGCCCTAGGGGGTGACAGGGCCCCCTCCAAGGACAAGGTGGCTGTGCTAAGCG  
TGGATGATTGTGATGTGGCCGTGGCTCTGCAGTTTGGTGTGAGATTGGCAACTACTCATGCGCGGCTGTGCTGTG  
TGCAAACAAGCTCCAAGAAGTCCCTGGACCTGACGGGGCCCTTCTTCTGGGAGGTGTCCCCAACCTCCCCGAGA  
ACTTCCCCGTATCCATAAGGACTTCATCGGCTGTATGCGGGACCTGCACATTGATGGCCGCGGAGTGACATGG  
CGGCTTTTGTGCAATAATGGCACCATGGCAGGCTGCCAAGCCAAGCTACACTTTTGTGACTCAGGCCCTGCA  
AGAACAGTGGCTTCTGCTCGGAGCGCTGGGGCAGCTTCAGCTGCGACTGCCCTGTGGGCTTCGGCGGCAAGACT  
GTCAGCTTACTATGGCCCATCCCCACCATTTCGCTGGCAACGGCACACTGAGCTGGAAGTTTGAAGTGACATGG  
CTGTGTCTGTGCCATGGTACCTGGGGCTGGCATTTCGGACACGGGCAACGCAGGGGGTCTGATGCAAGTGACAGG  
CTGGGGCACACAGCAGCTCCTTTGCCAGCTAGATCGGGGGTACTGTCTGTGACAGTGACCAGGGGCTCGGGCC  
GTGCTTCCCATCTCCTTCTGGACCAGGTGACTGTGAGTGATGGCCGTGGCAGATCTGCGGCTGGAGTTGCAGG  
AGGAACCAGGTGGCCGGCGGGGCCACCATGTCTTATGGTCTCACTGGACTTTAGCCTCTTCCAGGACACCATGG  
CGGTGGGGAGTGAGCTGCAGGGCCTGAAGGTAAAGCAGCTCCACGTGGGAGGCCTGCCCCCGGAGTGACAGG  
AGGCTCCTCAGGCTGTGGTTGGCTGCATCCAGGGGGTGTGGCTCGGCTCCACACCCTCTGGCTCCCCGGCCCTGC  
TACCCCCCAGCCACCGAGTGAATGCGGAGCCTGGCTGTGTTGTGACCAACGCCTGTGCCTCTGGGCCCTGCCAC  
CTCACGCAGACTGCCGGGACCTCTGGCAGACCTTTTCTTGACCTGCCAGCCAGGTTACTACGGCCAGGCTGTG  
TGGATGCCCTGCCTCCTGAACCCCTGTGAGAACCAGGATCATGCCGGCACCTGCCAGGAGCCCCCATGGCTATA  
CCTGTGACTGTGTGGGTGGCTATTTGGGGCACCCTGTGAGCACAGGATGGACCAGCAGTGCCACGGGGCTGGT  
GGGGGAGCCCAACCTGTGGCCCTGCAACTGTGATGTTACAAAGGTTTGTATCCCAACTGCAACAAGACAAATG  
GGCAGTGTCACTGCAAGGAGTTCCACTACCGACCGCGGGCAGTGACTCTTGCTCCCATGTGACTGCTACCCTG  
TGGGCTCCACCTCGCGCTCATGTGCACCCACAGCGGGCAGTGCCCTGTGCGCCAGGAGCCCTTGGCCGCCAGT  
GCAACAGCTGTGACAGTCCCTTCGACAGAGGTGACAGCCAGCGGCTGCCGGGTGCTCTATGATGCCTGCCCTAAGT  
CCCTGAGATCTGGTGTGTGGTGGCCCCAGACAAAGTTTGGCGTCTGGCCACAGTGCCCTGTCCCGGGGGGGCC  
TGGGTGCTGCTGTGCGGCTGTGTGATGAGGCCAGGGTTGGCTGGAGCCCGACCTCTTCAACTGTACCTCCCCTG  
CCTTTCGAGAGCTCAGTCTGCTGCTGGATGGCCTAGAGCTGAACAAGACGGCACTGGATACCATGGAGGCCAAGA  
AGCTGGCTCAGCGGCTACGGGAGGTGACTGGCCACACTGACCACTATTTAGCCAAGATGTTTCGAGTCACTGCCC  
GCCTGCTGGCCACCTGCTGGCCTTCGAGAGCCATCAGCAGGGCTTCGGGCTGACAGCCACACAGGATGCCACT  
TCAATGAGAATCTGCTGTGGGCCGGCTCTGCACTGCTTGGCCAGAGACAGGGGACTGTGGGGCGGCGTGGGGC  
AGCGGGCCCCCTGGGGGCTCCCCAGGCAGCGCGGACTGGTGAGGCACCTGGAGGAGTATGCAGCCACACTCGCAA

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**FIGURE 1132C**

GGAATATGGAAC TCACATACCTGAATCCCATGGGGCTGGTGACGCCTAATATCATGCTCAGCATTGACCGCATGG  
AGCACCACAGTTCTCCCCGGGGGGCCCGTCGCTACCCTCGCTACCATAGCAACCTCTTTTCGAGGCCAGGATGCCT  
GGGATCCTCACACCCATGTGCTGCTGCCCTCCAGTCCCCACGGCCATCCCCATCTGAAGTTCTGCCCACAAGCA  
GCAGCATAGAAAAC TCACACCTCAAGTGTGGTCCCCCACCAGCCCCGCCAGAGCCAGAGCCTGGGATCTCCA  
TTATCATTCTCCTCGTTTACCGCACCTTAGGGGGACTGCTCCCTGCCCAGTTCCAGGCAGAACGCCGAGGTGCCA  
GGCTTCCTCAGAACCCCGTCATGAAC TCCCCGGTGGTCAGCGTGGCTGTGTTCCACGGACGCAACTTCCTAAGGG  
GAATCCTGGAGTCCCCCATCAGCCTAGAGTTTCGCCTGCTACAGACAGCGAATCGGAGCAAGGCGATCTGTGTGC  
AGTGGGACCCACCTGGCCTGGCGGAGCAGCATGGTGTGTGGACAGCACGGGACTGCGAGCTGGTGCACAGGAATG  
GGTCCACGCACGGTGTGCTGTCAGCCGGACAGGGACCTTTGGGGTCTCTCATGGATGCCTCTCCCCGTGAGAGGC  
TGGAGGGCGACCTGGAGCTGCTGGCTGTGTTACCCACGTGGTCTGTGGCTGTGTCTGTGGCTGCGCTGGTGTGA  
CTGCAGCCATCCTGCTGAGCCTGCGCAGCCTCAAGTCCAATGTGCGTGGGATCCATGCCAATGTGGCAGCCGCC  
TGGGGGTGGCAGAGCTCCTCTTCTGCTGGGGATTACAGGACCCACAATCAGCTGGTGTGCACTGCAGTCGCCA  
TCCTCCTGCACTACTTCTTCTCCTCAGCACCTTCGCGTGGCTCTTCGTGCAGGGGCTGCACCTCTACCGCATGCAGG  
TTGAGCCACGCAACGTGGACCGCGGCCATGCGCTTCTACCATGCCCTGGGCTGGGGCGTCCCTGCTGTGTGCTGC  
TGGGCCTTGCTGTGGGCCTGGACCTGAGGGCTATGGGAACCCTGACTTCTGCTGGATCTCAGTCCACGAGCCCC  
TCATCTGGAGCTTTGCTGGCCCTGTTGTCTTGGTCTAGTGATGAACGGGACCATGTTTCTCCTCGCTGCCCGCA  
CATCCTGCTCCACAGGGCAGAGGGAGGCCAAGAAGACCTCTGCACTGACCCTTCGCAGCTCCTTCTGCTGCTTC  
TGCTGGTCAGTGCCTCCTGGCTCTTTGGGCTCCTGGCAGTCAACCACAGCATCCTAGCCTTCCACTACCTCCATG  
CTGGACTCTGCGGCCTCCAGGGCCTGGCGGTGCTGCTGCTCTTCTGTGCTCTAAATGCAGATGCTCGGGCTGCCT  
GGATGCCAGCCTGTCTGGGCAGGAAGGCAGCGCCTGAGGAGGCAAGGCCAGCACCTGGGCTGGGACCTGGGGCCT  
ACAACAACACGGCTCTCTTTGAGGAGAGTGGCCTCATCCGCATCACTCTGGGCGCCTCCACCGTCTCCTCTGTGA  
GCAGTGCCCGCTCCGGCCG3ACCCAGGACCAGGACAGCCAGCGGGGCCGAGCTACCTCAGGGACAATGTCTTGG  
TTCGACATGGCTCAGCCGCTGACCACACTGACCACAGCCTCCAGGCTCATGCTGGCCCCACTGACCTGGACGTGG  
CCATGTTCCATCGAGATGCTGGCGCAGACTCCGACTCTGACAGTGACCTGTCTTGGAGGAGGAGAGTCTCT  
CCATTCCATCTTCAGAAAGCGAGGACAATGGCCGGACGCGGGGGCGCTTCCAACGGCCACTCTGCCGAGCAGCCC  
AGAGTGAGAGGCTCCTCACCCACCCCAAAGATGTGGATGGCAATGACCTCCTGTCTACTGGCCAGCCCTGGGGG  
AGTGCGAGGCGAGCCCCCTGTGCTCTGCAGACTTGGGGCTCTGAAAGGCGCCTGGGGCTGGACACCAGCAAGGATG  
CAGCTAACAACAACAGCCAGACCCGGCCCTGACCAGTGGGGATGAGACTTCTCTGGGCCGGGCCAGCGCCAGA  
GGAAAGGCATCCTGAAGAACCGGTTGCAATACCCACTGGTGCCACAGACCCGAGGTGCCCTGAGCTGTCTTGGT  
GCCGTGCAGCCACCTTGGGGCACCGTGCAGTGCCAGCTGCCTCTTACGGTCGCATCTATGCTGGCGGGGGCACGG  
GCAGCCTTTACAGCCAGCCAGCCGCTACTCTTCTAGAGAACAGCTGGACCTGCTCCTCCGGCGGCAACTGAGCC  
GTGAGCGACTAGAGGAAGCCCCTGCCCCTGTTCTACGTCCCCTGAGCCGGCCAGGGTCCCAGGAATGCATGGATG  
CTGCACCAGGCCGACTGGAGCCCCAAGATCGGGGCAGCACCTGCCACGGAGGCAGCCACCTCGGGACTACCCTG  
GCGCCATGGCTGGCCGCTTCGGGTACCGGATGCGCTCGACTTAGGGGCACCTCGAGAGTGGTTGAGCACGCTGC  
CTCCGCCCCGCGCACCCGGGACCTTGACCCACAGCCCCACCTCTGCCCTGTCTCCCAGCGGCAACTCTCAA  
GGGACCCCTCTTGCCATCCCGGCCGCTGGACTCTCTGTCTAGGAGCTCGAATCTCTGGGAGCAGCTGGACCAGG  
TGCTTAGCCGGCACCCCTCACGAGAAGCCCTTGGGCCACTCCCGCAGCTGCTCAGAGCTAGGGAGGACTCGGTCA  
GTGGCCCCAGCCATGGCCCCCTCCACAGAACAGTTGGACATTCTTTCTCCATCCTTGCCCTCTTTCAACTCCTCGG  
CCCTCTCCTCTGTGCAATCTTCAAGCACACCCTTGGGCCCTCACACCACTGCCACACCTTCTGCCACAGCCTCTG  
TGCTTGGGCCCTCCACGCCACGTTCTGCCACGTCTCACAGCATCTCGGAGCTGTGCGCCAGACTCAGAAGTTCCCA  
GAAGTGAGGGTCACTCCTGAGGGGATGACGGCGTGGACGAGGAACAGCTGAGGGCGACAGAGGATCTAGGCTAAC  
AGGAGAGACTCCAGGAGTGGGGGCAGATCCCAAGGCAGCCTCCTGCTCCCCAGTGGTGGGTGCCCCAGCTCTACC  
TGGTGTGGCAGGGCTGAGGCTCCATGTGCATCTGTGAGCATGCGTGTGACAGGTGCAGAGACGGGGGACTGGAGG  
GAGACTTTTATACGTTTTGTACCTTTGTAACCAGAGAGATGCTTATGTTATTTTTTTCAGCTTTTCTGTCTCCTGGG  
GGGTTTGAGGCTGGGCTGGGAGGGGGAGGGAGATAGAGGGAGAGATGCAGTTTGACCCATTGTTGGTCTCTGAGCA  
AACCTATGCTCATCTCTCTCTCCTTGGGGTGGACTCAGATGGGTGGGACACATGCCTTCTCCCCCTATTTC  
CACCCCAAGTTGATCTGAGTATCGTCAGGGGCCCAAAGTACAGAATGTTCTTTGCTTTTTATTGAATGCTCCA  
AAGGCCAAACTTCTGGGGCTGGGGGTGGTCTTGGAACAGGGGTCTCTGACTTCTCATGGGGGCTTGCTCAT



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**FIGURE 1132D**

ACCGCCCCTCCTGGTGGATGTGTGTGTTTATTATGTGGAGTCCCTGCCACTTACTGCCTTATGACCTAGGACTGA  
TGCTGTGGGGTGCTGGTGGAGCAGCTGATGTCGTGTTTACAGAGCAAGGCTTCCCTGTCTCCACGGGGAGGGGC  
TCGGGCCTCTAGTCAGACATTCCCTGCAGAGGGTCGGTGGAGGGGTCATTACCTGCCCCCTGCAGCAAGCAAAAGT  
TGTCTGTGGTGCCATTTGATTCCCTGACACTGCCCCCTGCTTGAATTGATTCCGAAGGGTAGGGTGGGAAGGTGA  
GCAAAGGGAGCAGAAACAAGGGAATTCAAGACCCAGAATGTAGGTGCCACTGCCTCCTATGTTTACAGGATCCTC  
CGTGGCCCTAGGCACCTGGGCTGCAGGAAGTGACTCCGTTCCACTCCTCCTTTATTCCCTTAAAAAGGGAAAAAT  
GACTGTTACGACCCTGTTACAAAACTCTTACTTTTGCTATTTTGTCTGCTGTCCAGAACTGAAGACTTTAAAT  
TTTGTTACTGTTTACAAGTCCAGATTCAAAAAATGTTTTTACTTTGTTTACAACCTCAAAACTTTGAGTTTACAC  
TTTGTTTACAGTAGATAATTTTTTTTCCCTTTGTTTCCAAGTGAAAGGTAGGGAAAGTGGGAGAGGGACTTGGAGG  
ACCCACCTGTGAGGACCCTGACCTGGCCATCTTGAGGGGTTTTCTAACCCCCAGGTCTCCCAGGCCGAAGGTCAG  
CCTTGAGTCCCGTTTAAACAGCAGATCCAGAAGACCTTGAGAGTAGGCGTCCTCTAACCACGGGGGAGAGTGGCTG  
TGCAGGGCTGGGGGGTGGTCTGTGCAGACACCTCCTCACCCACCACCCCATGCATACTCTTGGGAAGCAGCTTCC  
TGGGAGATTAGAAATTCTACTTCCCTGACTGGAGCTAAATCCCACCAGCCAGGACCCAACTCTCCTTACCGAGA  
AGGACCCAGCTCTTGAAGGGCTGAGTGGCCTGCTGGGGGTGGGAGGGTGTCTTTACTATGTCTAGGTTTCGTA  
GATGCCCCTCTCTGGGGTTCCCCCTCCAGCCCAGCGCCCTCTTTCCTGTCTGTGTAAATTGTTCCGTGAAGC  
CGCGCTCTGTTTTGGGAATAAACTTCTATAGAAAACAAA

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**FIGURE 1133**

MMARRPPWRGLGERSTPILLLLLLLSLFFLSQEELGGGGHQGWDPGLAATTGPRAHIGGGALALCPRESSGVREDGG  
PGLGVREPIFVGLRGRQSSARNRSGPPEQPNEELGIEHGVQPLGSRERETGQGPSSVLYWRPEVSSCGRTGFLQR  
GSLSPGALSSGVPGSGNSSPLPSDFLIRHHGPKPVSSQRNAGTGSRKRVGTARCCGELWATGSKGQGERATTSGA  
ERTAPRRNCLPGASGSGPELDSAPRTARTAPASGSAPRESRTAPEPAPKMRSGLFRCRFLPQRPGPRPPGLPA  
RPEARVTSANRARFRRAANRHPQFPQYNYQTLVPENEAAGTAVLRVVAQDPDAGEAGRLVYSLAALMNSRSLEL  
FSIDPQSGLIRTAALDRESMERHYLRVTAQDHGSPRLSATTMVAVTVADRNDHSPVFEQAQYRETLRENVEEGY  
PILQLRATDGDAPPNANLRYRFVGPAAARAAAAAFEIDPRSGLISTSGRVDREHMESYELVVEASDQGQEPGPR  
SATVRVHITVLDENDNAPQFSEKRYVAQVREDVRPHTTVLVRTATDRDKDANGLVHYNIISGNSRGHFAIDSLTG  
EIQVVAPLDFEAEREYALRIRAQDAGRPLSNNTGLASIQVVDINDHIPFVSTPFQVSVLENAPLGHSVIHIQA  
VDADHGENARLEYSLTGVAPDTPFVINSATGWVSVSGPLDRESVEHYFFGVEARDHGSPLSASASVTVTVDVN  
DNRPEFTMKEYHLRLNEDAAVGTSVVSVTAVDRDANSASISYQITGGNTRNRFAISTQGGVGLVTLALPLDYKQER  
YFKLVLTASDRALHDHCYVHINITDANTHRPVFQSAHYSVSVNEDRPMGSTIVVISASDDDVGENARITYLLEDN  
LPQFRIDADSGAITLQAPLDYEDQVTTYTLAITARDNGIPQKADTTYVEVMVNDVNDNAPQFVASHYTGLVSEDAP  
PFTSVLQISATDRDAHANGRVQYTFQNGEDGDGDFTEPTSGIVRTVRRLDREAVSVYELTAYAVDRGVPPLRTP  
VSIQVMVQDVNDNAPVFPAAEEFEVRVKENSIVGSSVVAQITAVDPDEGNNAHIMYQIVEGNIPELFQMDIFSGELT  
ALIDLDEYARQEYVIVVQATSAPLVSRATVHVLVDQNDNSPVLNNFQILFNMYVSNRSDTFPSGIIIGRIPAYDP  
DVSDHLFYSEFERGNEQLLVVNQTSSELRLSRKLDNNRPLVASMLVTVDGLHSVTAQCCLRVIITEELLANSI  
TVRLENMWQERFLSPLLGRFLEGVAVALATPAEDVIFNIQNDTDVGGTVLNVFSALAPRGAGAGAAGPWFSSSE  
ELQEQLYVRAALAARSLLDVLFPDDNVCLREPCENYMKCVSVLRFDSSAPFLASASTLFRPIQPIAGLRCRCPP  
GFTGDFCETELDLCYSNPCRNGGACARREGGYTCVCRPRFTGEDCELDTEAGRCVPGVCRNGGTCTDAPNGGFRC  
QCPAGGAFEGPRCEVAARSFPSSSFVMFRGLRQRFHLTSLSFATVQQSGLLFYNGRLNEKHDFLALVLAGQVR  
LTYSTGESNTVVSPTVPGGLSDGQWHTVHLRYYNKPRTDALGGAQGPSKDKVAVLSVDDCDVAVALQFGAEIGNY  
SCAAAGVQTSSKSLDLTGPLLLGGVPLNLPENFPVSHKDFIGCMRDLHIDGRRVDMAAFVANNGTMAGCQAKLHF  
CDSPGCKNSGFCSERWGSFSCDCPVGFGGKDCQLTMAHPHHFRNGTLSWNFGSDMAVSVPWYLGAFRTRATQG  
VLMQVQAGPHSTLLCQLDRGLLSVTVTRGSGRASHLLDQVTVSDGRWHDRLRLLEQEEPGRGRGHVLMVSLDFS  
LFQDTMAVGSELQGLKVKQLHVGGLPPGSAEEAPQGLVGC IQGVWLGSTPSGSPALLPPSHRVNAEPGCVVTNAC  
ASGPCPPHADCRDLWQTFSTCQPGYYGPGCVDACLLNQCQNGSCRHLPGAPHGYTCDCVGGYFGHHCEHRMDQ  
QCPRGWWSFTCGPCNCDVHKGFDPNCKNTNGQCHCKEFHYRPRGSDSCLPCDCYPVGSTSRSCAPHSGQCPCRP  
GALGRQCNSCDSPPFAEVTASGCRVLYDACPKSLRSGVWVPQTKFVGLATVPCPRGALGAAVRLCDEAQGWLEPDL  
FNCTSPAFRELSLLLDGLELNKTALDTMEAKKLAQRLREVTGHTDHYFSQDVRVTARLLAHLAFESHQOQGFGLT  
ATQDAHFNENLLWAGSALLAPETGDLWAALGQRAPGGSPGSAGLVRHLEEYAATLARNMELTYLNPMLVTPNIM  
LSIDRMEHPSSPRGARRYPRYHSNLFERQDAWDPTHVLLPSQSPRPSSEVLPTSSSIENSTTSSVPPPPAPPE  
PEPGISIIILLVYRTLGLLLPAQFQAERRGARLPQNPVMNSPVVSVAVFHGRNFLRGILESPISLEFRLLQTANR  
SKAICVQWDPPGLAEQHGVTARDCELVHRNGSHARCRCRTGTFGVLMDasPRERLEGDLELLAVFTHVVAVS  
VAALVLTAAILLSRLSKSNVRGIHANVAAALGVAELLFLLGIHRTNQLVCTAVAILLHYFFLSTFAWLFLVQGL  
HLYRMQVEPRNVDRGAMRFYHALGWGPVAVLLGLAVGLDPEGYGNPDFCWISVHEPLIWSFAGPVVLVIVMNGTM  
FLLAARTSCSTGQREAKKTSALTLRSSFLLLLLLVASWLFGLLAVNHSILAFHYLHAGLCGLQGLAVLLLFVCLN  
ADARAAMWPAACLGKAAPEEARPAPGLPGAYNNTALFEESGLIRITLGASTVSSVSSARSRTQDQDSQRGRSY  
LRDNLVLRHGSAADHTDHSQAAGPTDLDVAMFHRDAGADSDSDSLSEEEERSLSIPSSSEEDNGRTRGRFQR  
PLCRAAQSERLLTHPKDVGNDLLSYWPALGECEAAPCALQTWGSERRLGLDTSKDAANNQPDALTSGDETSI  
GRAQRQRKGILKNRLQYPLVPQTRGAPELSWCRAATLGHRAVPAASYGRIYAGGGTGSLSQPASRYSSREQLDLL  
LRRQLSRERLEEAPAVLRPLSRPGSQECMDAAPGRLEPKDRGSTLPRRQPPRDYPGAMAGRFGSRDALDLGAPR  
EWLSTLPPPRRTDLDPPPLPLSPQRQLSRDPLPSRPLDSLRSNSREQLDQVPSRHPSREALGLPLQLLR  
AREDSVSGPSHGPFSTEQLDILSSILASFNSALSSVQSSSTPLGPHTTATPSATASVLGPSTPRSATSHSISELS  
PDSEVPRSEGHs

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**FIGURE 1134**

TACTGACTTTTCAGCACCAACTTGTGGTCCCAGGTAAGTTTCCACGCTGGTACTTTAGCCCTGGGCTCGAACCTGC  
GGACACGCTGTGGCTGCAACTCCCCGCCCGCCAGACCTCAGTACGCAGCGCGGCTGGTGAGAAACATAATGCACT  
CTGACTTCCACGCGTGGAATGGGGAGATGGACTGCACGGCGGGCGGACCTGCTCGGGCTGATGGACGGCAGGTGG  
ACTGATGTGCGCAGGGACTGGCGGCAGCGCGGTGAGAGCCAGTCAGCCAAAGCCAGGCCAGCACAAATAGACTGTC  
CCGGTTCCCCGCCAGGAGGCGGCCGAGCACCAACTGTACGGTACTGCGCCTGCGCCGCGACCGCCAACGCGCCCAG  
TCTACGCTTGCGCGGCGCAACAGGGCCGACTGCAGCTGGAAGATGGCGGCGTCCGTGGTCTGTGCGGGCCGCTACC  
GCCGGGGCACAAGTGCTATTGCGCGCCCGCCGCTCGCCGGCCCTGCTGCGGACGCCAGCCTTGCGGAGTACGGCA  
ACCTTCGCTCAGGCGCTCCAGTTCGTGCCGGAGACGCAGGTTAGCCTGCTGGACAACGGCCTGCGTGTGGCCTCC  
GAGCAGTCTCTCAGCCCACTTGCACGGTGGGAGTGTGGATTGATGTTGGCAGCCGTTTTGAGACTGAGAAGAAT  
AATGGGGCAGGCTACTTTTTGGAGCATCTGGCTTTCAAGGGAACAAAGAATCGGCCTGGCAGTGCCCTGGAGAAG  
GAGGTGGAGAGCATGGGGGGCCATCTTAATGCCTACAGCACCCGGGAGCACACAGCTTACTACATCAAGGCGCTG  
TCCAAGGATCTGCCGAAAGCTGTGGAGCTCTGGGTGACATTGTGTCAGAACTGTAGTCTGGAAGACTCACAGATT  
GAGAAGGAACGTGATGTGATCCTGCGGGAGATGCAGGAGAATGATGCATCTATGCGAGATGTGGTCTTTAACTAC  
CTGCATGCCACAGCATTCAGGGGCACACCTCTAGCCCAGGCTGTGGAGGGGGCCAGTGAGAATGTCAGGAAGCTG  
TCTCGTGCAGACTTGACCGAGTACCTCAGCACACATTACAAGGCCCTCGAATGGTGTGGCAGCAGCTGGAGGA  
GTGGAGCACCAGCAACTGTTAGACCTCGCCCAGAAGCACCTCGGTGGCATCCCATGGACATATGCAGAGGACGCT  
GTGCCCCTCTTACTCCATGCCGCTTCACTGGCAGTGAGATCCGCCACCGTGATGATGCTCTACCTTTTGCCAC  
GTGGCCATTGCAGTAGAGGGTCTTGCTGGGCCAGCCCGGACAGTGTGGCCTTGCAAGTGGCCAATGCCATCATC  
GGCCACTATGACTGCACTTATGGTGGTGGCGTGCACCTGTCCAGCCCACTGGCTTCAGGTGCTGTGGCCAACAAG  
CTATGCCAGAGTTTCCAGACCTTCAGCATCTGCTATGCAGAGACGGGCTTGCTGGGTGCACACTTTGTCTGTGAC  
CGAATGAAAATCGATGACATGATGTTTCGTCTGCAAGGGCAGTGGATGCGCCTGTGTACCAGTGCCACGGAGAGT  
GAGGTGGCCCGGGGCAAAAACATCCTCAGAAATGCCCTGGTATCTCATCTAGATGGCACTACTCCTGTGTGTGAG  
GACATCGGACGCAGCCTCCTGACCTATGGCCGCCGCATCCCCCTGGCTGAATGGGAAAGCCGGATTGCGGAGGTG  
GATGCCAGTGTGGTACGTGAGATCTGCTCCAAGTACATCTATGACCAGTGCCAGCAGTGGCTGGATATGGCCCC  
ATTGAGCAGCTCCAGACTACAACCGGATCCGTAGCGGCATGTTCTGGCTGCGCTTCTAGCGGGGAAGCCTATGT  
AAGCAAGAGGGCAGGGCCGGGGTTTGTGGTCCCCCCCCACCACAAACACAGCACTTCGGCTCCTCTAACCTGTG  
CCACAGGTGACCACCAATAAAATCCTCTGCTGAGA

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**FIGURE 1135**

MAASVVCRAATAGAQVLLRARRSPALLRTPALRSTATFAQALQFVPETQVSLDNGLRVASEQSSQPTCTVGVI  
DVGSRFETEKNNAGYFLEHLAFKGTKNRPGSALEKEVESMG AHLNAYSTREHTAYYIKALSKDLPKAVELLGDI  
VQNC SLED SQIEKERDVILREMQENDASMRDVVFNYLHATAFQGTPLAQAVEGPSENV RKLSRADLTEYLSHYK  
APRMVLAAGGVEHQQLDLAQKHLGGIPWTYAEDAVPTLTPCRFTGSEIRHRDDALPFAHVAIAVEGPGWASPD  
SVALQVANAIIGHYDCTYGGGVHLSSPLASGAVANKLCQSFQTF SICYAETGLLGAHFVCDRMKIDDMMFVLQGQ  
WMRLCTSATESEVARGKNILRNALVSHLDGTT PVCEDIGRSLTTYGRRIP LAEWESRIAEVDASVVREICSKYIY  
DQCPAVAGYGPIEQLPDYNRIRSGMFWLRF

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**FIGURE 1136**

TCCGACTCATCCCGGCCCCGGGATGGCGTCCCCACGGGAATTGACACAGAACCCCTGAAGAAGATCTGGATGCC  
ATACAGCAATGGGCGGCCCGCTCTGCACGCTTGCCAGCGCGGTGTGTGCATGACCAACTGCCCAACTCTCATTGT  
CATGGTGGGCCTGCCCCGCCAGGGGCAAGACCTACATCTCCAAGAAGCTGACTCGATACCTGAAGTGGATTGGTGT  
GCCCCACTCGGGAGTTCAATGTTGGCCAGTATCGCCGGGACGTGGTCAAGACCTACAAATCTTTTGAATTTTTTCT  
CCCCGACAATGAAGAGGGCCTGAAAATCAGGAAGCAGTGTGCCCTGGCAGCCCTCCGTGACGTCCGGCGGTTCCCT  
TAGTGAGGAGGGGGGACATGTGGCGGTTTTTGTATGCCACAAACACCACCCGAGAACGGAGAGCGACCATCTTTAA  
TTTTGGAGAACAGAATGGCTACAAGACCTTTTTTGTGCGAGTCCATCTGTGTGGATCCTGAGGTCATAGCTGCCAA  
CATCGTGCAAGTGAAGTGGGAGCCCTGACTATGTCAACCGCGCAGTGTGAGGCTACGGAGGACTTCATGAG  
GCGCATTGAGTGCTATGAGAACTCCTACGAGTCGCTAGATGAGGACCTGGATAGGGACCTGTCTATATCAAGAT  
CATGGATGTGGGCCAGAGCTACGTGGTGAACCGTGTGGCTGACCACATCCAGAGCCGCATCGTATATTACCTCAT  
GAACATCCACGTGACCCCCGCTCCATCTACCTCTGCCGGCACGGGGAGAGCGAGCTCAACCTCAAGGGCCGGAT  
TGGCGGGGACCCAGGACTGTCCCCTCGGGGACGGGAGTTTGCCAAGAGTCTAGCCCAGTTCATCAGTGACCAAAA  
TATCAAGGATCTGAAGGTCTGGACAAGCCAGATGAAGAGGACAATCCAGACGGCTGAGGCACTGGGTGTGCCCTA  
TGAACAGTGGAAGTCTCAACGAGATCGATGCGGGCGTCTGTGAGGAAATGACCTACGAGGAAATTCAGGATAA  
TTATCCACTGGAGTTCGCCCTGCGGGACAGGACAAGTACCGGTACCGGTACCCTAAAGGGGAGTCTACGAGGA  
CCTGGTCCAGAGACTGGAGCCTGTCTCATGAGCTGGAGAGGCAAGAGAATGTGCTGGTCTATCTGCCACCAGGC  
TGTGATGCGCTGCCTGTGGCCTACTTCTCGACAAGGCAGCAGAACAGCTGCCCTACCTCAAGTGTCCGCTGCA  
CACAGTCTGAAGCTGACTCCTGTGGCATATGGTTGTAAAGTGGAGTCCATATTCCTGAACGTGGCTGCTGTGAA  
CACGCACCGGGACAGGCCTCAGAACGTGGACATCTCAAGACCTCCAGAGGAAGCCCTTGTACGGTGCCTGCTCA  
CCAGTGACCATGTTTCATCCACTGTGACCACTAGGCAGGCACTGCTCTCTGCAGAGGGGGTCAATCCAGGCCCTCC  
AGTGTGTGTGATAGTCACCATGCCATGCAGGGATATTCTTGAAGCCACACATGGCTGGCGGAACCCAGAGCCCC  
ACCCAGCCACCTGGCTCTTTGTTGACAGTCGGCGACAAGGTTGTGCGTGGCTCCTGACCTGCTGCTAAGAGTC  
ACTTGACCAGACTGCATCTGCATGGGCTGCGCGGAGGTTGCCCAGCCCCAGTTTCTTCCGGCGCAGCTCTTAGGT  
GTTCACTCTCGCCAGCTCAGTTGGCTTTGTGAAGTGTGAAACCCTACAATGTGAAAGGAAAGTGCTTGCTGTGAT  
GTTCTACTGTGGCCAGCTGCCCAGCATGGACCTGGTGACTCTCCACAGGGCCTCTACCATCCTCTCTGTGGCC  
ACTTCCTGAGCCAGAGGCCAGGTCTTCATGGGGCCCTGAGCTTCTGCTGCCTCTGGTGAGAGGGAGAGCCCTTCC  
CATCCTTACCCACCAGGAAGTAGAGCCCCAACACAGCAGATGCTTCCTGGGCAGCCACTGGCCAGGCCGTTGTA  
TCCATGTCACCCCTTAGTTGTGGGCATTTCATGAAAGCAATGCGCTTGCTTCAGCACATTGGGATGCACAGAAACGT  
GAGGGCAGGGGGGAGTTGTGGTGCCTTCCCCAGTTGTGCATGTACCCGGCTACTTAGGTATGCTTAGGGGAG  
CTGGTGGCCAGGGGTGCCCTTCAGGCCTGCTCTCACAGTGAAACCCTTCAAGACAGGGCAGGAAGTTACCTTC  
CTGGTGCACACACCGAAGTGCTCGAGGGAGAGGCTGCCGCCCTTCTCCCTTCCCTGGCTGTGGACACTGGCAG  
CCAATGGGGAGGCGGCTCTCCCTGTTGCTGCCCGTGTCCACACAGGAATGTACACTGGTGGCAGAAACATGCA  
TTTGCCATAAATAATTAGAAAC

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**FIGURE 1137**

AGCAATGGCTGCCATCCGGAAGAACTGGTGATTGTTGGTGATGGAGCCTGTGGAAAGACATGCTTGCTCATAGT  
CTTCAGCAAGGACCAGTTCCCAGAGGTGTATGTGCCCACAGTGTTTGAGAACTATGTGGCAGATATCGAGGTGGA  
TGGAAGCAGGTAGAGTTGGCTTTGTGGGACACAGCTGGGCAGGAAGATTATGATCGCCTGAGGCCCCCTCTCCTA  
CCCAGATACCGATGTTATACTGATGTGTTTTTCCATCGACAGCCCTGATAGTTTGTAGAAAACATCCCAGAAAAGTG  
GACCCCAGAAGTCAAGCATTCTGTCCCAACGTGCCCATCATCCTGGTTGGGAATAAGAAGGATCTTCGGAATGA  
TGAGCACACAAGGCGGGAGCTAGCCAAGATGAAGCAGGAGCCGGTGAAACCTGAAGAAGGCAGAGATATGGCAAA  
CAGGATTGGCGCTTTTGGGTACATGGAGTGTTTACAGCAAAGACCAAAGATGGAGTGAGAGAGGTTTTTGAAATGGC  
TACGAGAGCTGCTCTGCAAGCTAGACGTGGGAAGAAAAAATCTGGGTGCCTTGTCTTGTGAACCTTGCTGCAAG  
CACAGCCCTTATGCGGTTAATTTTGAAGTGCTGTTTATTAATCTTAGTGTATGATTACTGGCCTTTTTTCATTTAT  
CTATAATTTACCTAAGATTACAAATCAGAAGTCATCTTGCTACCAGTATTTAGAAGCCAACTATGATTATTAACG  
ATGTCCAACCCGCTCTGGCCACCAGGGTCCTTTTGACACTGCTCTAACAGCCCTCCTCTGCACTCCACCTGACA  
CACCAGGCGCTAATTCAAGGAATTTCTTAACCTCTTGCTTCTTTCTAGAAAGAGAAACAGTTGGTAACTTTTGTG  
AATTAGGCTGTAACCTACTTTATACTAACATGTCTGCTTATTATCTGTCAGCTGCAAGGTAATCTGGTGAGTCA  
CCACTTCAGGGCTTTACTCCGTAACAGATTTTGTGGCATAGCTCTGGGGTGGGCAGTTTTTTGAAAATGGGCTC  
AACCAGAAAAGCCCAAGTTCATGCAGCTGTGGCAGAGTTACAGTTCTGTGGTTTCATGTTAGTTACCTTATAGTT  
ACTGTGTAATTAGTGCCACTTAATGTATGTTACCAAAAATAAATATATCTACCCAGACTAGATGTAGTATTTTT  
TGTATAATTGGATTTCTAATACTGTCATCCTCAAAGAAAGTGATTGGTTTTTTAAAAAAGAAAGTGATTGG  
AAATAAAGTCAGATGGAAAATTCATTTTTTAAATTCCCGTTTTGTCACTTTTTCTGATAAAAGATGGCCATATTA  
CCCCTTTTCGGCCCCATGTATCTCAGTACCCCATGGAGCTGGGCTAAGTAAATAGGAATTGGTTTCACGCCTGAG  
GCAATTAGACACTTTGGAAGATGGCATAACCTGTCTCACCTGGACTTAAGCATCTGGCTCTAATTCACAGTGCTC  
TTTTCTCCTCACTGTATCCAGGTTCCCTCCCAGAGGAGCCACCAGTTCTCATGGGTGGCACTCAGTCTCTCTTCT  
CTCCAGCTGACTAACTTTTTTTCTGTACCAGTTAATTTTTCCAACCTACTAATAGAATAAAGGCAGTTTTCT

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**FIGURE 1138**

MAAIRKKLVIVGDGACGKTCLLIVFSKDQFPEVYVPTVFENYVADIEVDGKQVELALWDTAGQEDYDRLRPLSYP  
DTDVILMCFSIDSPDSLENIPEKWTPEVKHFPCNPVPIILVGNKKDLRNDHTRRELAKMKQEPVKPEEGRDMANR  
IGAFGYMECSAKTKDGVREVFEMATRAALQARRGKKKSGCLVL

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**FIGURE 1139**

TGAGCCCCAGCTAAGCGCTGCCCTTGAGTATGTGCGGAGTCACCCCTTGGACCCCATCGACACTGTGGACTTCGA  
GCGGGAATGTGGCGTGGGTGTCATTGTGACCCAGAGCAGATTGAGGAGGCTGTGGAGGCTGCTATTAACAGGCA  
CCGGCCCCAGCTCCTGGTGGAACGTTACCATTTCAACATGGGGCTGCTGATGGGAGAGGCTCGGGCTGTGCTGAA  
GTGGGCAGATGGCAAAATGATCAAGAATGAAGTGGACATGCAGGTCCTCCACCTTCTGGGCCCCAAGTTGGAGGC  
TGATCTGGAGAAGAAGTTCAAGGTGGCAAAAGCTCGGCTAGAAGAAACAGACCGGAGGACGGCAAAAGGATGTGGT  
GGAGAATGGCGAGACTGCTGACCAGACCCTGTCTCTGATGGAGCAGCTCCGGGGGGAGGCCCTTAAGTTCACAA  
GCCTGGTGAGAACTACAAGACCCAGGCTATGTGGTCACTCCACACACCATGAATCTACTAAAGCAGCACCTGGA  
GATTACTGGTGGGCAGGTACGTACCCGGTTCCCGCCAGAACCCAATGGAATCCTGCATATTGGACATGCCAAAGC  
CATCAATTTCAACTTTGGCTATGCCAAGGCCAACAATGGCATCTGTTTTCTGCGTTTTGATGACACCAACCCTGA  
GAAGGAGGAAGCAAAGTTCTTCACGGCCATCTGTGACATGGTAGCCTGGCTAGGCTACACACCTTACAAAGTCAC  
ATATGCGTCTGACTATTTTGACCAGCTATATGCGTGGGCTGTGGAGCTCATCCGCAGGGGTCTGGCTTATGTGTG  
CCACCAGCGAGGAGAGGAGCTCAAAGGCCATAATACTCTGCCTTCACCCTGGAGAGACCGTCCCATGGAGGAGTC  
ACTGCTGCTCTTTGAGGCAATGCGCAAGGGCAAGTTTTAGAGGGCGAGGCCACACTACGGATGAAGCTGGTGAT  
GGAGGATGGCAAGATGGACCCTGTAGCCTATCGAGTCAAGTATACACCACACCACCGCACAGGGGACAAATGGTG  
CATCTATCCCACCTACGACTACACACACTGCCTCTGTGACTCCATCGAGCACATCACTCACTCACTCTGCACCAA  
GGAATTCCAGGCCCG



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**FIGURE 1140A**

GAAGGCAGTTTCCGGAGGGAAGGGGTAGGGTTGGGGTGGGGGCGCTCTCCGCCCGGTGTTGCGCTCCTTCCCAGA  
ATCCGCTCCGGCCTTTCTTCTCCTGCCGCGATTCCCAACTTTGCTCAAAGTCGCTGGACTCTAAGCTGTCTGGAGGG  
ACCGCTGGACAGACCTGGGAACTGACAGAGGGCCTGGAGGGAAACAGGCCAAAGACCCACAGGCAGAGTTGACAC  
GGAACCCCAAAGCAAGGAGGAGGGCTCGGGCCCGAGACCGTTACCTCCCCTTATCCCTGTTCCCTCTTTCAGGA  
TGGAGCTGACCTCAAGGGAAAGAGGGAGGGGACAGCCTCTGCCCTGGGAACTTCGACTGGGCCTACTGCTAAGCG  
GTGAGAGGGCCTGGTGGGGGCTGGGGGTTGTGGAATGTGATGGTAGTCCCTGGGAGTTGCCCTTGGGGCACATGA  
GGTGGAGCCACTGGATAGGAACTCCACGGAAGTACTGAGCTACTGTCCCCAGTGTGCTGCCACACTGGCACA  
GGCCCCCTGCCCCCGATGXXX  
XXXACCACAGCGCGGGCAGCCTGGTGGCAGTCAG  
AGAATGGTATCCCTGCGGTACCATCCAGCTGGACCTGGAGGCTGAGTTTCATTTACACACCTCATTATGACCT  
TCAAGACATTTGCCCCCTGCTGCCATGCTGGTGGAAACGCTCAGCAGACTTTGGCCGCACCTGGCATGTGTACCGAT  
ATTTCTCCTATGACTGTGGGGCTGACTTCCCAGGAGTCCCACTAGCACCCCCACGGCACTGGGATGATGTAGTCT  
GTGAGTCCCCTACTCAGAGATTGAGCCATCCACTGAAGGCGAGGTCATCTATCGTGTGCTGGACCCTGCCATCC  
CTATCCCAGACCCCTACAGCTCACGGATTGAGAACCTGTTGAAGATCACCAACCTACGGGTGAACCTGACTCGTC  
TACACACGTTGGGAGACAACCTACTCGACCCACGGAGGGAGATCCGAGAGAAGTACTACTATGCCCTCTATGAGC  
TGGTTGTACGTGGCAACTGCTTCTGCTACGGACACGCCTCAGAGTGTGCACCCGCCCCAGGGGCACCAAGCCCATG  
CTGAGGGCATGGTGCACGGAGCTTGCATCTGCAACACAACACACGTGGCCTCAACTGCGAGCAGTGTGAGGATT  
TCTATCGTGACCTGCCCTGGCGTCCGGCTGAGGACGGCCATAGTCATGCCTGTAGGAAGTGTGAGTGGCATGGGC  
ACACCCACAGCTGCCACTTCGACATGGCCGTATACCTGGCATCTGGCAATGTGAGTGGAGGTGTGTGTGATGGAT  
GTCAGCATAACACAGCTGGGCGCCACTGTGAGCTCTGTGCGCCCTTCTTCTACCGTGACCCAAACCAAGGACCTGC  
GGGATCCGGCTGTGTGCCGCTCCTGTGATTGTGACCCCATGGGTTCTCAAGACGGTGGTTCGCTGTGATTCCCATG  
ATGACCCTGCACTGGGACTGGTCTCCGGCCAGTGTGCTGCAAAGAACATGTGGTGGGCACCTCGCTGCCAGCAAT  
GCCGTGATGGCTTCTTTGGGCTCAGCATCAGTGACCGCTGCGGCTGCCGGCGTATGTCAATGTAATGCACGGGGC  
ACAGTGCCTGGGAGCACTCCTTGTGACCCCAACAGTGGATCCTGTTACTGCAAACGTCTAGTGACTGGACGTGGA  
TGTGACCGCTGCCTGCCTGGCCACTGGGGCTGAGCCACGACCTGCTCGGCTGCCGCCCCCTGTGACTGCGACGTG  
GGTGGTGCTTTGGATCCCCAGTGTGATGAGGGCACAGGTCAATGCCACTGCCGCCAGCACATGGTTGGGCGACGC  
TGTGAGCAGGTGCAACCTGGCTACTTCCGGCCCCCTTCTGGACCACCTAATTTGGGAGGCTGAGGACACCCGAGGG  
CAGGTGCTCGATGTGGTGGAGCGCCTGGTGAACCCCGGGGAACTCCATCCTGGACTGGCTCAGGCTTCGTGCGG  
CTACAGGAAGGTGAGACCTGGAGTTCCCTGGTGGCCTCTGTGCCGAAGGCTATGGACTATGACCTGCTGCTGCGC  
TTAGAGCCCCAGGTCCCTGAGCAATGGGCAGAGTTGGAAGTATTGTGACGCTCCAGGGCCTGTGCCCTGCCAC  
AGCCTGTGTGGGCATTTGGTGCCCAAGGATGATCGCATCCAAGGGACTCTGCAACCACATGCCAGGTACTTGATA  
TTTCCTAATCCTGTCTGCCTTGAGCCTGGTATCTCTACAAGCTGCATCTGAAGCTGGTACGGACAGGGGGGAAGT  
GCCCAGCCTGAGACTCCCTACTCTGGACCTGGCCTGCTCATTGACTCGCTGGTGTGCTGCCCCGTGTCTGGTG  
CTAGAGATGTTTAGTGGGGGTGATGCTGCTGCCCTGGAGCGCCAGGCCACCTTTGAACGCTACCAATGCCATGAG  
GAGGGTCTGGTGGCCAGCAAGACTTCTCCCTCTGAGGCTGCGCACCCCTCCTCATCAGCCTGTCCACCCCTCATC  
TACAATGGTGGCCTGCCATGTGAGTGAACCCCTCAAGGTTCACTGAGTTCTGAGTGAACCCCTCATGGTGGTCAG  
TGCCTGTGCAAGCCTGGAGTGGTTGGGCGCCGCTGTGACCTCTGTGCCCCCTGGCTACTATGGCTTTGGCCCCACA  
GGCTGTCAAGCCTGCCAGTGCAGCCACGAGGGGGCACTCAGCAGTCTCTGTGAAAAGACAGTGGGCAATGTCTC  
TGTGCAACTGGTGCCTTTGGGCTTCGCTGTGACCGCTGCCAGCGTGGCCAGTGGGGATTCCCTAGCTGCCGGCCA  
TGTGTCTGCAATGGGCATGCAGATGAGTGAACACCCACACAGGCGCTTGCTGGGCTGCCGTGATCACACAGGG  
GGTGAACACTGTGAAAGGTGCATTGCTGGTTTCCACGGGGACCCACGGCTGCCATATGGGGGCCAGTGCCGGCCC  
TGTCCTGTCTGAAGGCCCTGGGAGCCAACGGCACTTTGCTACTTCTTGCCACCAGGATGAATATTCCCAGCAG  
ATTGTGTGCCACTGCCGGGCAGGCTATACGGGGCTGCGATGTGAAGCTTGTGCCCTGGGCACCTTTGGGGACCCA  
TCAAGGCCAGGTGGCCGGTGCCAAGTGTGTGAGTGCAGTGGGAACATTGACCCAATGGATCCTGATGCCTGTGAC  
CCCCACACGGGGCAATGCCTGCGCTGTTTACACCACACAGAGGGTCCACACTGTGCCCACTGCAAGCCTGGCTTC  
CATGGGCAGGCTGCCCCACAGAGCTGTCAACCGCTGCACATGCAACCTGCTGGGCACAAATCCGCAGCAGTGGCCA  
TCTCCTGACCAGTGCCACTGTGATCCAAGCAGTGGGCAGTGCCCATGCCTCCCCAATGTCCAGGGCCCTAGCTGT  
GACCGCTGTGCCCCCAACTTCTGGAACCTCACCAAGTGGCCATGGTTGCCAGCCTTGTGCTGCCACCCAAGCCGG

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**FIGURE 1140B**

GCCAGAGGCCCCACCTGCAACGAGTTACAGGGCAGTGCCACTGCCGTGCCGGCTTTGGAGGGCGGACTTGTTCT  
GAGTGCCAAGAGCTCCACTGGGGAGACCCTGGGTTGCAGTGCCATGCCTGTGATTGTGACTCTCGTGGAATAGAT  
ACACCTCAGTGTACCGCTTCACAGGTCACTGCAGCTGCCGCCCAGGGGTGTCTGGTGTGCGCTGTGACCAGTGT  
GCCCCGTGGCTTCTCAGGAATCTTTCCCTGCCTGCCATCCCTGCCATGCATGCTTCGGGGATTGGGACCGAGTGGTG  
CAGGACTTGGCAGCCCCGTACACAGCGCCTAGAGCAGCGGGCGCAGGAGTTGCAACAGACGGGTGTGCTGGGTGCC  
TTTGAGAGCAGCTTCTGGCACATGCAGGAGAAGCTGGGCATTGTGCAGGGCATCGTAGGTGCCCGCAACACCTCA  
GCCGCTCCACTGCACAGCTTGTGGAGGCCACAGAGGAGCTGCGGCGTGAAATTGGGGAGGCCACTGAGCACCTG  
ACTCAGCTCGAGGCAGACCTGACAGATGTGCAAGATGAGAACTTCAATGCCAACCATGCACTAAGTGGTCTGGAG  
CGAGATAGGCTTGCACTTAATCTCACACTGCGGCAGCTCGACCAGCATCTTGACTTGCTCAAACATTCAAACCTC  
CTGGGTGCCTATGACAGCATCCGGCATGCCCATAGCCAGTCTGCAGAGGCAGAACGTCGTGCCAATACCTCAGCC  
CTGGCAGTACCTAGCCCTGTGAGCAACTCGGCAAGTGCTCGGCATCGGACAGAGGCACTGATGGATGCTCAGAAG  
GAGGACTTCAACAGCAAACACATGGCCAACCAGCGGGCACTTGGCAAGCTCTCTGCCCATACCCACACCCTGAGC  
CTGACAGACATAAATGAGCTGGTGTGTGGGGCACCAGGGGATGCACCCTGTGCTACAAGCCCTTGTGGGGGTGCC  
GGCTGTGAGATGAGGATGGGCAGCCGCGCTGTGGGGGCCCTCAGCTGCAATGGGGCAGCGGCTACAGCAGACCTA  
GCACTGGGCGGGCCCCGGCACACACAGGCAGAGCTGCAGCGGGCACTGGCAGAAGGTGGTAGCATCCTCAGCAGA  
GTGGCTGAGACTCGTCGGCAGGCAAGCGAGGCACAGCAGCGGGCCCAGGCAGCCCTGGACAAGGCTAATGCTTCC  
AGGGGACAGGTGGAACAGGCCAACCAGGAACCTCAAGAACTTATCCAGAGTGTGAAGGACTTCTCAACCAGGAG  
GGGGCTGATCCTGATAGCATTGAAATGGTGGCCACACGGGTGCTAGAGCTCTCCATCCCAGCTTCAGCTGAGCAG  
ATCCAGCACCTGGCGGGTGCATTGTCAGAGCGAGTCCGGAGCCTGGCAGATGTGGATGCGATCCTGGCACGTACT  
GTAGGAGATGTGCGTCTGTGCCGAGCAGCTACTGCAGGATGCACGGCGGGCAAGGAGCTGGGCTGAGGATGAGAAA  
CAGAAGGCAGAGACAGTACAGGCAGCACTGGAGGAGGCCAGCGGGCACAGGGTATTGCCCAGGGTGCCATCCGG  
GGGGCAGTGGCTGACACACGGGACACAGAGCAGACCCTGTACCAGGTACAGGAGAGGATGGCAGGTGCAGAGCGG  
GCACTGAGCTCTGCAGGTGAAAGGGCTCGGCAGTTGGATGCTCTCCTGGAGGCTCTGAAATTGAAACGGGCAGGA  
AATAGTCTGGCAGCCTCTACAGCAGAAGAAACGGCAGGCAGTGCCCAGGGTCTGTGCCAGGAGGCTGAGCAGCTG  
CTACGCGTCTCTGGGTGATCAGTACCAGACGGTGAAGGCCCTAGCTGAGCGCAAGGCCCAAGGTGTGCTGGCT  
GCACAGGCAAGGGCAGAACAACTGCGGGATGAGGCTCGGGACCTGTTGCAAGCCGCTCAGGACAAGCTGCAGCGG  
CTACAGGAATTGGAAGGCACCTATGAGGAAAATGAGCGGGCACTGGAGAGTAAGGCAGCCAGTTGGACGGGTTG  
GAGGCCAGGATGCGCAGCGTGTCTCAAGCCATCAACTGCAGGTGCAGATCTACAACACCTGCCAGTGACCCCTG  
CCCAAGGCCTACCCCAAGTTCTAGCACTGCCCCACATGCATGTCTGCCTATGCACTGAAGAGCTCTTGGCCCCGGC  
AGGGCCCCCAATAAACAGTGTGAACCCCC

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**FIGURE 1141**

AGGGCCGGGAGCCCCGCCAGAGCCCGACTTCAGCCCCAGCCAGATCCCGCGTCAACGGAGGCGGAACGGCGGGACC  
CCGTACCCCTGCAGCATCGGAGCACCGGCGGGTGAAGGCAAGGTCCCTGGACTGGTCATATACCTCTTGTGGCCC  
TGGCAGAAATCAAGATGAGGCCCTGTCATGCCTCCCCAGTGAGGCCTACAGTCTGAGCAGACAGCATGGCCTGCCA  
CTGGCAGTGAACACCATGTCTGCAGGAGGTGGCCGGGCCTTTGCTTGGCAAGTGTTCCCCCCCCATGCCCACTTGC  
CGGGTCTATGGCACAGTGGCACACCAAGATGGGACCTGCTGGTGTGGGGGGTGTGGCCGGGCTGGACTGCCC  
CTGGACACTGCTGAGACACTGGACATGGCCTCGCACACATGGCTGGCACTGGCACCCCTGCCCACTGCCCGGGCT  
GGTGCAGCTGCGGTAGTTCTGGGCAAGCAGGTGCTAGTGGTGGGTGGTGTGGATGAGGTCCAGAGCCCGGTAGCT  
GCTGTAGAGGCCTTCCTGATGGATGAGGGCCGCTGGGAGCGTCGGGCCACCCTCCCTCAAGCAGCCATGGGGGT  
GCAACTGTGGAGAGAGATGGTATGGTGTATGCTCTGGGGGGAATGGGCCCTGACACGGCCCCCAGGCCCAGGTA  
CGTGTGTATGACCCCCGTCGGGACTGCTGGCTTTCGCTACCCTCCATGCCACACCCTGCTATGGGGCCTCCACC  
TTCTGTCACGGGAACAAGATCTATGTCTGGGGGGCCGCCAGGGCAAGCTCCCGGTGACTGCTTTTGAAGCCTTT  
GATCTGGAGGCCCGTACATGGACCCGGCATCCAAGCCTACCCAGCCGTCGGGCCTTTGCTGGCTGCGCCATGGCT  
GAAGGCAGCGTCTTTAGCCTGGGTGGCCTGCAGCAGCCTGGGCCCCACAACCTTCTACTCTCGCCACACTTTGTC  
AACACTGTGGAGATGTTTGACCTGGAGCATGGGTCTTGACCAAATTGCCCCGCAGCCTGCGCATGAGGGATAAG  
AGGGCAGACTTTGTGGTTGGGTCCCTTGGGGGCCACATTGTGGCCATTGGGGGCCTTGAAACCAGCCATGTCCT  
TTGGGCTCTGTGGAGAGCTTTAGCCTTGACGGCGGCGCTGGGAGGCATTGCCTGCCATGCCCACTGCCCGCTGC  
TCCTGCTCTAGTCTGCAGGCTGGGCCCCGGCTGTTTGTATTGGGGGTGTGGCCAGGGCCCCAGTCAAGCCGTG  
GAGGCACTGTGTCTGCGTGATGGGGTCTGAAGGCTTGGTGGGAGCTGTCCACTGGAGCAGCTCATTGCCAGAGGC  
AGCTATTTCTATGGCTCCTTTTGCTGCTGAGGACACTCACTGTGGCTCTGTGGGATGAGAGAGGCATGGGGGTGA  
GCACTTGAAACACTGCCTTGGGGCCTTGGGTTAGGGGAGCCTTTGTCTTTAGTGCAGGACACACATATGCTTACA  
CCTACCTTTATCACCATTTCGTTTCATGAATCATGCCTAGCTCCATCCTTGCCCTGGGACCTACTAGGCCTTCCATC  
CAACTGGGAAATGGGGAGAAGCAAAGCTGGCCTCATGCTCTTCAGGGTCAGTTCCTATCTGGAGTTGACCAGGCC  
TACCCAGTTGCCATTCTGAAAAATCTCAGCTGCCAGGCTGCCTTTAGGGTCCCTGCAGACCCAGGAGAGTTGA  
GAGGGTGGGGGACACAGAGAGAATAGAGAGGATGTGGGAACTGCCAGAGGGCCGGAGCGCAGGAGTTCAAGTGGA  
GGAATGCTGGCTTTGAGCCCTCTACACTGCTGGTTGTATGACCTTGGACAAGTCACTTCACCTCTCTGTGCCTCA  
GCATCCTCATCTATAAATGGGGATCTCTGAAACCTTCCTACCCCTACCTACCTCACAGGGCTGTTGTGAGGACCA  
GGGAGTTTGGATGTGGAAGTAAAAGTGCTGCTAAAACCTA

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**FIGURE 1142**

MSAGGGRAFAWQVFPPMPTCRVYGTVAHQDGHLLVLGGCGRAGLPLDTAETLDMASHTWLALAPLPTARAGAAV  
VLGKQVLVVGGVDEVQSPVAAVEAFLMDEGRWERRATLPQAAMGVATVERDGMVYALGGMGPD TAPQAQVRVYDP  
RRDCWLSLP SMPTPCYGASTFLHG NKIYVLGGRQGKLPVTAF EAFDLEARTWTRHPSLPSRRAFAGCAMAEGSVF  
SLGGLQQPGPHNFYSRPHFVNTVEMFDLEHGSWTKLPRSLMRDKRADFVVGSLGGHIVAIGGLGNQPCPLGSVE  
SFSLARRRWEALPAMP TARCSCSSLQAGPRLFVIGGVAQGPSQAVEALCLRDGV

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**FIGURE 1143**

GGCGGCAGAGAGGAGACTATGGAACGTCAGGTGCTGCTGAGCGAGCCCGAGGAGGCGGCGGCTCTGTATCGGGGC  
CTTAGCCGCCAGCCCGCGCTGAGCGCCGCTGCCTGGGCCCGGAGGTCACCACGCAGTACGGCGGGCCAATACCGG  
ACGGTGACACTGAGTGGACCCAGAGGGACCTGGAACGCATGGAGAACATTCGATTCTGCCGCCAATACCTGGTG  
TTCCATGACGGGGACTCAGTGGTGTTTGCAGGACCTGCAGGCAACAGTGTGGAGACCCGGGGGGAAGTCTGAGC  
AGAGAGTCTCCTTCAGGCACCATGAAAGCTGTGCTGCGCAAGGCTGGAGGCACGGGCCCTGGGGAAGAGAAGCAG  
TTCCTGGAGGTCTGGGAGAAGAACCAGGAGCTCAAGAGCTTCAACCTGTCAGCGCTGGAGAAACATGGGCCTGTT  
TATGAGGATGACTGCTTTGGCTGCCTGTCTGGTGCCTCGGAGACACACTTGTGTATGTGGCAGAGAAGAAG  
CGCCCCAAGGCCGAGTCCCTTCTTTCAGACCAAGCCTTGGACGTCAGTGCCAGCGATGATGAGATAGCCAGGCTG  
AAGAAGCCAGACCAAGCCATCAAGGGGGATCAGTTTGTGTTTTATGAAGACTGGGGAGAAAACATGGTTTCCAAA  
AGCATCCCTGTGCTCTGCGTGCTGGATGTGAGAGTGGCAACATCTCTGTGCTTGAGGGGGTCCCTGAGAATGTG  
TCCCCTGGACAGGCATTTTGGGCCCTGGAGATGCTGGTGTGGTGTGTTGTGGGCTGGTGGCATGAGCCCTTCCGG  
TTGGGCATCCGCTTTTGCACCAATCGCAGGTCAGCCCTGTATTATGTGGACCTCATCGGGGGGAAGTGTGAGCTC  
CTCTCGGATGACTCCCTGGCTGTCTCTTCTCCCCGGCTGAGCCAGACCAATGTGCGATTGTCTACCTGCAGTAC  
CCATCTCTGATCCCCCATCACCAATGCAGCCAGCTGTGCCTGTATGACTGCTATACCAAGTTACCTCAGTGGTG  
GTAGATGTTGTGCTCGGCAGCTGGGAGAGAACTTCTCTGGGATCTACTGCAGCCTTCTGCCTTTGGGATGCTGG  
TCAGCTGACAGCCAGAGAGTGGTCTTTGACTCGGCTCAGCGCAGCCGGCAGGACCTGTTTGTGTGGACACCCAA  
GTGGGCACTGTGACCTCCCTCACAGCTGGAGGGTCAAGTGGGAGCTGGAAGTTGCTCACAATTGACCAGGACCTC  
ATGGTGGCACAGTTTTCCACACCCAGCCTACCTCCAACCCTGAAAGTTGGGTTCCTGCCTTCTGCAGGGAAGGAG  
CAGTCAGTGTGTGGGTGTCCCTGGAGGAGGCCGAGCCATTCCCGACATCCACTGGGGCATCCGGGTGCTACAG  
CCACCCCCAGAGCAAGAGAATGTGCAGTATGCTGGCCTTGACTTTGAAGCAATCCTGCTGCAGCCTGGCAGCCCT  
CCAGATAAGACCCAAGTGCCCATGGTGGTCAAGCCCCACGGGGGGCCCCATTCATCCTTTGTCACTGCCTGGATG  
CTGTTCCCAGCCATGCTTTGCAAGATGGGCTTTGCGGTACTACTAGTGAAGTATCGTGGCTCCACGGGCTTTGGC  
CAGGACAGCATCCTCTCCCTCCCAGGCAATGTGGGCCACCAGGATGTGAAGGATGTCCAGTTTGCAGTGGAAACAG  
GTGCTCCAGGAGGAACACTTTGATGCAAGCCATGTGGCCCTTATGGGTGGTTCCTATGGTGGCTTCATTTCTGC  
CACTTGATTGGTCAGTACCCAGAGACCTACAGGGCCTGCGTGGCCCGGAACCCCGTGATCAACATCGCCTCCATG  
TTGGGCTCCACTGACATCCCTGACTGGTGCCTGGTGGAGGCTGGCTTTTCTTTCAGCAGTGACTGCCTGCCAGAC  
CTCAGCGTGTGGGCTGAGATGCTGGACAAATCGCCCATCAGATACATCCCTCAGGTGAAGACACCACTGTTACTG  
ATGTTGGGCCAGGAGGACCGGCGTGTGCCCTTCAAGCAGGGCATGGAGTATTACCGTGCCCTCAAGACCCGGAAT  
GTGCCTGTTGGGCTCCTGCTCTATCCCAAAGCACCCACGCATTATCAGAGGTGGAGGTGGAGTCAGACAGCTTC  
ATGAATGCTGTGCTCTGGCTACGCACACACTTGGGCAGCTGAGGCCCTGCCATTCTGCATGAGCTGATCAGCCTG  
TGCCACACTTCGCTCTTGAGGAGCTCAACGGTCTGGCAGGGCAGCAGGAGGCTTTCTGGGCTCTGGACTCCACGG  
ATGCGTGGGCAGAGGAATGTGGGCTATGTAGTCATAATAAATTAGGAC

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**FIGURE 1144**

MERQVLLSEPEEEAAALYRGLSRQPALSAACLGPEVTTQYGGQYRTVHTEWTQRDLERMENIRFCRQYLVFHDGDS  
VVFAGPAGNSVETRCELLSRESPSGTMKAVLRKAGGTGPGEKQFLEVWEKNRKLKSFNLSALEKHGVPYEDDCF  
GCLSWSHSETHLLYVAEKKRPKAESFFQTKALDVSASDDEIARLKKPDQAIKGDQFVFYEDWGENMVSKSIPVLC  
VLDVESGNISVLEGVPENVSPGQAFWAPGDAGVVFVGWWHEPFRLGIRFCTNRRSALYYVDLIGGKCELLSDDSL  
AVSSPRLSPDQCRIVYLQYPSLIPHHQCSQLCLYDWYTKVTSVVVDVVPRQLGENFSGIYCSLLPLGCWSADSQR  
VVFDSAQRSRQDLFAVDTQVGTVTSLTAGGSGGSWKLLTIDQDLMVAQFSTPSLPPTLKVGFLPSAGKEQSVLWV  
SLEEAEPIDIIHWGIRVLQPPPEQENVQYAGLDFAILLQPGSPDKTQVPMVVMPhGGPHSSFTAWMLFPAML  
CKMGFAVLLVNYRGSTGFGQDSILSLPGNVGHQDVKDQFAVEQVLQEEHFDASHVALMGGSHGGFISCHLIGQY  
PETYRACVARNPVINIASMLGSTDIPDWCVVEAGFFSSDCLPDL SVWAEMLDKSPIRYIPQVKTPLLLMLGQED  
RRVPFKQGM EYYRALKTRNVPVRLLLYPKSTHALSEVEVESDSFMNAVWLRLRTHLGS

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**FIGURE 1145**

TACTCCCGGAGTCACTCATCCCTTAAGCAAGCAGGGTGGGGTTAGGTGCGCGTGCGCGGTTTTAATACTCCTCCC  
CGAACTGCCAACTCTTCACGCACGCGAAGTAGGCCCCACCCTGGCTGGGTTTACGCGTGCGCACTAACGGGGCCTG  
GTCCCAGGAAGACCACACGCGTGCGTGGTGGGGACTACGGTGACAGTACCCCGGGTGGGGCGAGGGCCAGTCA**ATGG**  
CGGAGTCTTGGTCTGGGCAGGCCTTGACAGGCTCTGCCGGCCACGGTGCTGGGCGCGCTGGGCAGCGAGTTCTTGC  
GGGAGTGGGAGGCGCAGGACATGCGCGTGACCCTCTTCAAGCTGCTGCTGCTGTGGTTGGTGTTAAGTCTCCTGG  
GCATCCAGCTGGCGTGGGGTTCTACGGGAATACAGTGACCGGGTTGTATCACCGTCCAGGTCTGGGTGGTCAGA  
ATGGATCCACGCCTGATGGCTCCACGCATTTCCCTTCGTGGGAAATGGCAGCAAACGAACCTCTCAAAACCCACA  
GAGAA**TAA**GGGAAGGCAGCAGAGGGTCTCCAAGGGCATCACTGGGTCTGCTGGCTTCTACACTGGGTCTGCTAC  
TCCCCAGACCTCAGGGACAACCTGCCGGGGTTTCAAGGTTGGTAGCAGGGAGTACCCAGTGCCCTACAGGGCTGGGC  
CTCTTCTGCCTCTTAAGCCTGCTCCCTCACCCAGGCACTGGGCAAGTGAAGAGTTTGCCTGTACTCTTATCTGGG  
TGCCTTAAGGAGAGAGATTGTGTTCTTCTCTCAGGGGTGATAACTCAGGAAGCCTCTGGGTGGGAAGACCA  
TCAGTTCCTTTTGTCTTAGGTTTCTTTTCTCTCCTCTCCATCCCCAAGATGTGACCCCATAAAAATTTTTCT  
GAGTTGGCCAGGCATGGTGGCTCACGCCTGTAATCCCAACACTTTGGGAGGCTGAGGCAGGCAGATCACGAGGTC  
AGGAGTTCGAGACCAGCCTGACCAACATGGTGAACCCCATCTCTACTAAAAATACAAAAATTAGCCGGGTGTG  
GTGGCACACACCAGTAATCCCAGCTACTCGGGAGGCTGAAGCAGGAGATTTGCTTGAACCTGGGAGGCAGAGGTT  
GCAGTGAGCCAAGATTGCGCCGTTGTAATCCAGCCTGGGCAACAGAGCAAGACCCATCTCAAAAAAAAAATTTTT  
TTCTGAGAGGAAGCCTGAGGTTGACCAGCTCTGGGGTTTGTAAAGCAGGTCTGTTTTCTCCTAGGCCCTGAGTT  
TTCTGAATCTCTGGTTTTGCTTTGTTGGCAAGGAGCCAGGGAATCCTGACCTGAGCCAGACCTTAAGCTCTATGG  
TTATTTAGCTGGCCATTAGGTATAAGGCAGGGTGGTGTACCTGCTGGCACTATCCAGATGGAGGCACCAACAC  
CCACATACCTGGCCCAACCAGACTTCTCCCGTGAGCCAGGCAAAGGAAATTGTCATCTGCCAACTGTCTTACTCA  
TATTCCTCTCAGTCCTTCTTGGGGGTAAAGCTGATTACCTGAAGGACAGCTGAACCCCTGGGGTAGCCTCCTATCC  
ACCACTGCTTAAGTGCCTATGGGAATGTGGGTCTGCACCTTGTCCCCTCATAGGATGGTACCAAGCATTTAGTGC  
ACAGTGGCCCCATCATAGCCTGCAGCCTCATCATTTCCCATCTGGACCTGGTACAAATGCACGTACAGGCTCAG  
CTCCTCCCCACTAGCATCTTCTCTACCTTCAAGAACCAGGCAGCCCTGCCATGTCACAATAGGCCAGGGGAGTTT  
CCAAAGATGTGGGTGGCAAATGCCCCTATAGAAACACCAGTACCTGAAAGCACTGTAGCCCTGGACCTGCCTCCT  
TCCCTCGGGGCCATACTTCTGTTTCCATCTGCTGGGCCACCAGCCACTTTAGTGACCCCTGCCTACTTCTCTCCT  
GTTGGATATCATACTTCCATCTGGCTGCCTTTGCTTAAGCCATCTTTGTGGTAGAGGGGCCCTGGAATTGCAGCT  
GTACTGAGGATGATGTTATTACAGCCCCTGGCCCCACCCACTAATACTACTGCACAGAGTCAGGATCTCACATTT  
CACCCAGGCTCAACTGAGGATGTGGCTTATTAAACACGGAAGTGC

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**FIGURE 1146**

MAESWSGQALQALPATVLGALGSEFLREWEAQDMRVTLEKLLLLWLVLSSLGIQLAWGFYGNVTGTGLYHRPGLGG  
QNGSTPDGSTHFPSWEMAANEPLKTHRE



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**FIGURE 1147**

CCCGAGTGCTTCCCGCAGAGGGCTGGTGGTGGGAGCGGAGTGGGTGCGGGCGGGGCCGAGCCGGGGCCGTGGGCCGT  
GTGGGGGSCGGGCGGCGGGCCGGCGGACGGCGGGATGGGCTGCACCGTGAGCGCCGAGGACAAGGCGGGCGG  
CCGAGCGCTCTAAGATGATCGACAAGAACCTGCGGGAGGACGGAGAGAAGGCGGCGCGGGAGGTGAAGTTGCTGC  
TGTTGGGTGCTGGGGAGTCAGGGAAGAGCACCATCGTCAAGCAGATGAAGATCATCCACGAGGATGGCTACTCCG  
AGGAGGAATGCCGGCAGTACCGGGCGGTTGTCTACAGCAACACCATCCAGTCCATCATGGCCATTGTCAAAGCCA  
TGGGCAACCTGCAGATCGACTTTGCCGACCCCTCCAGAGCGGACGACGCCAGGCAGCTATTTGCACTGTCCTGCA  
CCGCCGAGGAGCAAGGCGTGCTCCCTGATGACCTGTCCGGCGTCATCCGGAGGCTCTGGGCTGACCATGGTGTGC  
AGGCCTGCTTTGGCCGCTCAAGGGAATACCAGCTCAACGACTCAGCTGCCTACTACCTGAACGACCTGGAGCGTA  
TTGCACAGAGTGACTACATCCCCACACAGCAAGATGTGCTACGGACCCGCGTAAAGACCACGGGGATCGTGGAGA  
CACACTTCACCTTCAAGGACCTACACTTCAAGATGTTTGATGTGGGTGGTCAGCGGTCTGAGCGGAAGAAGTGGA  
TCCACTGCTTTGAGGGCGTCACAGCCATCATCTTCTGCGTAGCCTTGAGCGCCTATGACTTGGTGCTAGCTGAGG  
ACGAGGAGATGAACCGCATGCATGAGAGCATGAAGCTATTTCGATAGCATCTGCAACAACAAGTGGTTACAGACA  
CGTCCATCATCCTCTTCCCTCAACAAGAAGGACCTGTTTGAGGAGAAGATCACACACAGTCCCCTGACCATCTGCT  
TCCCTGAGTACACAGGGGCCAACAATATGATGAGGCAGCCAGCTACATCCAGAGTAAGTTTGAGGACCTGAATA  
AGCGCAAAGACACCAAGGAGATCTACACGCACTTCACGTGCGCCACCGACACCAAGAACGTGCAGTTTCGTGTTTG  
ACGCCGTCACCGATGTCATCATCAAGAACAACCTGAAGGACTGCGGCCTCTTCTGAGGGGCGAGCGGGGCCTGGCG  
GGATGGGCCACCGCCGACTTTGTACCCCCCAACCCCTGAGGAAGATGGGGGCAAGAAGATCACGCTCCCCGCCTG  
TTCCCCGCGCTTTTCTCCTCTTCTCTCTTTGTTCTCAGCTCCCCCTGTCCCCTCAGCTCCAGACGTAGGGG  
AGGGGTTGCCACAGGCCTCCCTGTTTGAAGCCTGCCCTTGCTCTGAGATGCTGGTAATGGCCATGGTACCCCTTC  
TGGGCATCTGTTCTGGTTTTTAACCATGTCTTGTCTGTGATGAGGGGAGGGGGGCACATGCTGAGTCTCCCAA  
GGCTGCGTCTGGAGGGGGCCCTGCTTCTCCAGCCTGGACCCCCAGCTTTGCCCAACACCAGCCCCTGCCCCAGCC  
CAAGTCCAAATGTTTACAGGGAGCCTCCTGCCCAGTCCCCCAACCCAGCCGCTCGGAGGCCCCAAAGGAAAAAG  
CACAAGAAGCGTGAGACGCCACCATTCTTGAAACACAGTCC

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**FIGURE 1148**

MGCTVSAEDKAAAERSKMIDKNLREDGEKAAREVKLLLLGAGESGKSTIVKQMKIIHEDGYSEEECRQYRAVVYS  
NTIQSIMAIVKAMGNLQIDFADPSRADDARQLFALSCTAEEQGVLPDDL SGVIRRLWADHGVQACFGRSREYQLN  
DSAAYYLNDLERIAQSDYIPTQQDVLRTRVKTTGIVETHFTFKDLHFKMFDVGGQSRERKKWIHCFEGVTAIIFC  
VALSAYDLVLAEDEEMNRMHESMKLFDSICNNKWFDTDSIILFLNKKDLFEKITHSPLTICFPEYTGANKYDEA  
ASYIQSKFEDLNKRKDTKEIYTHFTCATDTKNVQFVFDVTDVVIKNNLKDCGLF

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**FIGURE 1149**

TCTGTGATTGTGGCCAGGCGGGGCACCCTCGGAGGGGAGGGTTTCGGAAGTGGAATGCGACCCCCCAGCCTCTTTT  
CCCTAGGGGCTGTAATCTGATCCCTGGGGACTCCCCCCTAGCCTCCCGCCCTCGCCCTCACTGCTGACTCCTCT  
TCCAGATCCTGGGGCAGAGTCCAGGGCAGCTCAAGGCTCCTCCACACACACACCCGCTGAACCTGAGCACCCTG  
AGCTGCTGAGATGGGGCGGGCCGGGGCTGCCGCCGTGATCCCGGGCCTGGCCCTGCTCTGGGCAGTGGGGCTGGG  
GAGTGCCGCCCCCAGCCCCCAGCCTTCGGCTCTCCTTCCAAGAGCTCCAGGCCTGGCATGGTCTCCAGACTTT  
CAGCCTGGAGCGAACCTGCTGCTACCAGGCCTTGCTGGTGGATGAGGAGCGTGGACGCCTGTTTGTGGGTGCCGA  
GAACCATGTGGCCTCCCTCAACCTGGACAACATCAGCAAGCGGGCCAAGAAGCTGGCCTGGCCGGCCCCCTGTGGA  
ATGGCGAGAGGAGTGCAACTGGGCAGGGAAGGACATTGGTACTGAGTGCATGAACTTCGTGAAGTTGCTGCATGC  
CTACAACCGCACCCATTTGCTGGCCTGTGGCACGGGAGCCTTCCACCCAACCTGTGCCTTTGTGGAAGTGGGCCA  
CCGGGCAGAGGAGCCCGTCCCTCCGGCTGGACCCAGGAAGGATAGAGGATGGCAAGGGGAAGAGTCCCTTATGACCC  
CAGGCATCGGGCTGCCTCCGTGCTGGTGGGGGAGGAGCTATACTCAGGGGTGGCAGCAGACCTCATGGGACGAGA  
CTTTACCATCTTTTCGAGCCTAGGGCAACGTCCAAGTCTCCGAACAGAGCCACACGACTCCCGCTGGCTCAATGA  
GCCCAAGTTTGTCAAGGTATTTTGGATCCCGGAGAGCGAGAACCAGACGACGACAAAAATCTACTTCTTCTTTTCG  
TGAGACGGCGGTAGAGGCGGCGCGGCACTGGGACGCCTGTCCGTGTCCCGCGTTGGCCAGATCTGCCGGAACGA  
CGTGGGGCGGCCAGCGCAGCCTGGTCAACAAGTGGACGACGTTCTGAAGGCGCGGCTGGTGTGCTCGGTGCCCGG  
CGTCGAGGGCGACACCCACTTCGATCAGCTCCAGGATGTGTTTCTGTTGTCTCGCGGGACACCCGGACCCCGCT  
GCTCTATGCCGTCTTCTCCACGTCCAGCAGCATCTTCCAGGGCTCTGCGGTGTGCGTGTACAGCATGAACGACGT  
GCGCCGGGCCTTCTTGGGACCCCTTGCACACAAGGAGGGGCCATGCACCAGTGGGTGTACATACAGGGTTCGCT  
CCCCTACCCGCGGCCAGGCATGTGCCCCAGCAAGACCTTTGGCACCTTCAGTTCCACCAAGGACTTCCAGACGA  
TGTCATCCAGTTTTCGCGGAACCAACCCCTCATGTACAACCTCTGTCCTGCCCCTGGGGGGCGCCCTCTTTTCT  
ACAAGTTGGAGCCAATTACACCTTCACTCAAATTGCCGCGGACCGGGTTGCAGCCGCTGACGGACACTATGACGT  
CCTCTTCATTGGCACAGACGTTGGCACGGTGTGAAGGTGATCTCGGTCCCCAAGGGCAGTAGGCCCAGCGCAGA  
GGGGCTGCTCCTGGAGGAGCTGCACGTGTTTGGAGACTCGGCCGCTGTACCAGCATGCAAATTTCTTCCAAGAG  
GCACCAGCTGTACGTAGCTCGCGGAGCGCGGTGGCCAGATCGCGTTGCACCGCTGCGTGTGCCACGGCCGCGT  
CTGCACCGAATGCTGTCTGGCGCGTGACCCCTACTGCGCCTGGGACGGGGTGCAGTGCACGCGCTTCCAGCCAG  
TGCCAAGAGGCGGTTCCGGCGGCAAGACGTAAGGAATGGCGACCCAGCACGTTGTGCTCCGGAGACTCGTCTCG  
TCCCGCGCTGCTGGAACACAAGGTGTTCCGGCGTGGAGGGCAGCAGCGCCTTTCTGGAGTGTGAGCCCCGCTCGCT  
GCAGGCGCGCTGGAGTGGACTTTCCAGCGCGCAGGGGTGACAGCCACACCCAGGTGCTGGCAGAGGAGCGCAC  
CGAGCGCACCGCCCGGGGACTACTGCTGCGCAGGCTGCGGCGCCGGGACTCGGGCGTGTACTTGTGCGCCGCGT  
CGAGCAGGGCTTTACGCAACCGCTGCGTGCCTGTGCTGACGTGTTGAGTGTACGCAGGCCGAACGACTGGC  
GCGGGCCGAGGAGGCTGCGCCCGCGCGCCGCGGGGCCAACTCTGGTACCGGGACTTTCTGCAGCTGGTGGGA  
GCCGGGCGGAGGTGGCAGCGCAACTCCCTGCGCATGTGCCGCCGCGAGCCTGCGCTGCAGTCACTGCCCTGGA  
GTCGCGGAGAAAGGGCCGTAACCGGAGGACCCACGCCCCCTGAGCCTCGCGCTGAGCGGGGGCCGCGCAGCGCAAC  
GCACTGGTGAACAGACTGTCCCCACGCCGGGAACCAAGCAGGAGACGACAGGCGAGAGAGGAGCCAGACAGACCC  
TGAAAAAGAAGGACGGGTTGGGGCCGGGCACATTGGGGGTACCGGCCGATGGAGACACCAACCGACAGGCCCTGG  
CTGAGGGCAGCTGCGCGGGCTTATTTATTAACAGGATAACCCCTGAATGTAGCAGCCCCGGGAGGGCGGCACAGG  
TCGGGCGCAGGATTCAGCCGGAGGGAAGGGACGGGGAAGCCGAGCTCCAGAGCAACGACCAGGGCCGAGGAGGTG  
CCTGGAGTGGCCACCCTGGGAGACAGACCCACCTCCTTGGGTAGTGAGCAGTGAGCAGAAAGCTGTGAACAGGC  
TGGGCTGCTGGAGGTGGGGCGAGGCAGGCCGACTGTACTAAAGTAACGCAATAAACGCATTATCAGCCA

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**FIGURE 1150**

MGRAGAAAVIPGLALLWAVGLGSAAPSPPRLRLSFQELQAWHGLQTFSLERTCCYQALLVDEERGRLFVGAENHV  
ASLNLDNISKRAKKLAWPAPVEWREECNWAGKDIGTECMNFVKLLHAYNRTHLLACGTGAFHPTCAFVEVGHRAE  
EPVLRLLDPGRIEDGKGKSPYDPRHRAASVLVGEELYSGVAADLMGRDFTIFRSLGQRPSLRTEPHDSRWLNPKF  
VKVFWIPESENPDDDKIYFFFRETAVEAAPALGRLSVSRVGQICRNDVGGQRSLVNKWTTFLLKARLVCSVPGVEG  
DTHFDQLQDVFLSSRDHRTPLLYAVFSTSSSIFQGSAVCVYSMNDVRR AFLGPF AHKEGPMHQWVS YQGRVPYP  
RPGMCPSKTFTGTFSSTKDFPDDVIQFARNHPLMYNSVLPTGGRPLFLQVGANYTFTQIAADRVAAADGHYDVLFI  
GTDVGTVLKVISVPKGSRPSAEGLLLEELHVFEDSAAVTSMQISSKRHQLYVASRSAVAQIALHRC AAHGRVCTE  
CCLARDPYCAWDGVACTRFQPSAKRRFRQQDVRNGDPSTLCSGDSSRPALLEHKVFGVEGSSAFLECEPRSLQAR  
VEWTFQRAGVTAHTQVLAERTERTARGLLLRLRRRDSGVYLCAAVEQGFTQPLRRLSLHVL SATQAERLARAE  
EAAPAAPP GPKLWYRDFLQLVEPGGGGSANSLRMC RPQPALQSLPLESRRKGRNRRTHAPEPRAERGPR SATHW

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**FIGURE 1151**

ATGGGCCCCAAAAATCTTGGCGAAGTCACTTTTTTCCACTGCCTGAGGTTTGGCTGTTGCTCCTGTTATCCCAA  
GCTCTAAGCCCTTCCCATGGTCCCCAGACCCAGGCAGGGGTAGGTCTCGTCTGGAGTGTCCCGCTGCCAAGTGCC  
CTGAGAAGCCAGTCTGCTTGGTGCTCCACTGAGGGACGCTTCGGAGTTAACCACCGTGCCTTGTTCCTGACG  
CGGGGCTGGGGCGCGCGCAGGGCATTGTGGGTGCATAGTTTCAGCCAGCGCGTCTGCTGGCTGTAGCCGCCGTGCG  
CTGCGCGCTCAGGCCTCTGGGATTAGTAGTTTTAGCCTCGTGGATGGCGGGGCGCCTCGCGAAGATGGTGGCGCG  
CGTGGCGTGTGGCTCCCGTCTGCTGGCCAAGTCTCAGCGCAGCGCACCGGCCGGCGTCTCGTTGGCCTGGAGCCC  
ACACCCACCGGGTCCCTGACCCCGCGCCCCCGCGCCCGGTTCCCGGCATGCCTCGCGCCCGTAAGGGCAACACG  
CTCCGGAAGGGTGGTCAGCGCCGTGGAGGAGGTGCCCCGAGCAGTGCCCAAGCTGACTCGGGTTCCAGTGACGAT  
GAGGCAGCCAGTGAGGCCCCGAGCACCGCCAGTGAATGCCCCAGCCTTCTCAGCACCAGTGCAGAGGACAGCCTT  
GGGGGGGATGTCTGGATGAGCAGGGCCAGCAGGAAGACCTTGAGGAAAAGCTGAAGGAGTATGTGGACTGTCTC  
ACAGACAAGAGTGCCAAGACCCGGCAGGGTGCTCTTGAGAGCCTGCGCCTGGCCCTAGCGTCCCGCCTACTCCCC  
GACTTCTTGCTGGAGCGCCGCTCAGCTAGCCGATGCCCTGGAAAAGTGCCTCAAGAAAGGGAAGGGCGAGGAA  
CAAGCCCTGGCTGCTGCTGTGCTAGGCCTGCTCTGCGTGCAGCTGGGCCCTGGACCTAAGGGTGAGGAGCTGTTT  
CACAGCCTGCAGCCTCTGCTGGTCTCTGTGCTCAGTGACAGCACAGCTAGCCCTGCTGCCCCGGCTCCACTGTGCT  
TCTGCCCTTGGCCTGGGCTGCTACGTGGCTGCCGCTGACATCCAGGACCTGGTCTCTTGCCCTTGCTGCTTAGAA  
AGTGTTCAGCCGGTTCTATGGCTTGGGGGGCAGCTCCACAAGTCTGTGGTTCTTGCCAGCCTGCACGGCCTG  
CTCTCTGCTGCCCTGCAGGCCTGGGCATTGCTGCTCACCATCTGCCCTAGCACCCAAATCAGCCACATCCTTGAC  
AGGCAGCTGCCCCGGCTGCCCCAGCTCTTGCTCAGTGAAAGTGTGAACCTGCGGATCGCTGCCGGTGAAACCATT  
GCACTGCTCTTTGAGCTTGGCCGGGACCTTGAGGAGGAGTTTGTTCAGAGGACATGGAGGCCCTCTGCAGTGTG  
CTGCGCACTCTGGCCACTGACAGTAACAAGTACCGTGCCAAGGCTGATCGTCGGCGCCAGCGCTCTACTTTCCGC  
GCCGTGCTGCACTCCGTGGAGGGCGGTGAATGCGAAGAAGAGATAGTGCGCTTCGGCTTTGAGGTGCTCTACATG  
GACAGCTGGGCTCGGCACCGGATCTACGCTGCCTTCAAGGAAGTGTGGGTTTCGGGCATGCACCACCACCTCCAG  
AACAATGAGCTACTCCGTGACATCTTTGGCCTGGGCCCTGTGCTGTTGCTGGATGCCACTGCCCTGAAGGCCTGC  
AAGGTTCCACGCTTTGAGAAGCACCTGTACAATGCTGCTGCCTTCAAAGCCCGGACCAAGGCTCGAAGCCGTGTG  
CGGGACAAGCGGGCAGACATCCTGTGAAGCAGGACCTGCTGAAGAGGAGACTTTCTATGCCCTTGGTCCGTATTT  
TTAACAGAAGACAGTGCAACAAGTGGTCTCCACCAGTATTTGTCACTTTATTTTTTTTAAATGACAAAACAAAAA  
CAGACATGGGGTGGGTAGCTGGGGGGCCGACACTTGGGACCCTGACCCCTTTGTCCCTGCACTCAGCCCTGTGG  
CCCCTTCTGTCTGTCTCAGGCCAGGCTAAATATGTGCCTTCCTCAGGGCTGTGGGGCAGGCACTAGGGGGCCT  
TTCCCTTCTTTCTTTCTCAGGCCTTGCTCCCCCAGGATGACCCACTCTTAGGGGGGTGGTGGCATCTGGACAA  
ATGCCACCACAGCAGGTGGGGTGGCAAAGCTACCTGGAATGGATTGTGTGCTGATTTTAAAGGATTATTACAGA  
TAATTAAACAGAACGGTCAGCCTTCAAAAAAAAAAAAAAAAAAAAAATTCCTGCGGCCGCAAGGC

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**FIGURE 1152**

MGPKKSWRSHFFFLPEVWLLLLLSQALSPSHGPQTQAGVGLVWSVPLPSALRSQSCLGAPLRDASELTTVHLFPT  
RGWGARRALWVHSSASASSAASRRRLRAQASGISSFSLVDGGAPREDGGARGVWLPSSGQVSAQRTGRRLVGLEP  
TPTGSLTPRPFRPVPGMPRARKGNTLRKGGQRRGGGARSSAQADSGSSDDEAASEARSTASECPSLLSTTAEDSL  
GGDVVDEQGGQEDLEEKLEKEYVDCLTDKSAKTRQGALESRLALASRLLPDFLLERRLTADALEKCLKKGKCEE  
QALAAVLGLLCVQLGPGPKGEELFHSLOPLLVSVLSDSTASPAARLHCASALGLGCVAAADIQDLVSCLACLE  
SVFSRFYGLGGSSTSPVVPASLHGLLSAALQAWALLTICPSTQISHILDRQLPRLPQLSSESVNLRIAAGETI  
ALLFELARDLEEEFVYEDMEALCSVLRTLATDSNKYRAKADRRRQRSTFRAVLHSVEGGECEEEIVRFGFEVLYM  
DSWARHRIYAAFKEVLGSGMHHLQNNELLRDIFGLGPVLLLDATALKACKVPRFEKHLYNAAAFKARTKARSRV  
RDKRADIL

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**FIGURE 1153**

TGCGGCCGCGTTTCCGTGGAGACAGCCGAGCCTGCGGAAGGCGGCGGCGGCGGCACCTGCGATCAGCGGCTGGGG  
CAGGTTATGGTAGTGCGGACTGCGGTGTGAGCAGAGCGGCCACGGGGCCCGCCATGCGCCGGCGGCCCTGACATG

GGCGCCAGCGGGTCCAAAGCTCGGGGCCTGTGGCCCTTCGCCTCGGCGGCGGAGGCGGCGGCTCAGAGGCAGCA  
GGAGCTGAGCAAGCTTTGGTGCGGCCTCGGGGCCGAGCTGTGCCCCCTTCGTATTCACGCGCCGCGGCTCTATG  
TTCTATGATGAGGATGGGGATCTGGCTCACGAGTTCTATGAGGAGACAATCGTCACCAAGAACGGGCAGAAGCGG  
GCCAAGCTGAGGCGAGTGCAATAAGAATCTGATTCTCAGGGCATCGTGAAGCTGGATCACCCCGCATCCACGTG  
GATTTCCCTGTGATCCTCTATGAGGTGTGAACCTGGGAGGTGGCAGACAGAAGCACCCCTGCCCGGCAAGAAA  
CTCCCAGGCTCAATCAAGGTGTGGCTTCCATTGAGGAGCCCAGGCTGGGGCCACAACCCTGAATAAACTCTGTTG  
GCCCCATAACCTTCAGCTGTGAGCGGGTCGGTCCACAGTATTGGTTGGGTGTTGGTTTGTGTGTGGACAAGAGGT  
GGTTGGTGGGTGGTGAAGGCTAATGGCAGAGTTAGCACCCCACTCTCCCAAGCCACCCCTGCAAGCAGCATAGCA  
GGGCATATAACCAGTCAGGAATGCCCGTTACCTGGTTCCCTTGCTTGGTCTGCTTTCTTCCAAGTTTGCCTGGGGCC  
TAGCCCTGCTAGAGGCTACAGCACTTTACAAGCAAGGTATGCTTTCTTCCAGCCCTTAGGCTGTGGGCACTGTAT  
ACAAGTAGGAACCTTCCTTTCCCTTCACTTCCCTTTTAACCCCTAGTCAGAGCATTCAGCCGTTTGTCTACCTCGAT  
TCCTCCTGTGTTGGACAGAGGCTGGGGGCAGTGCCAGCCTGATTCTTCCGACCTACCTGCCATTTGTTCCCGCCT  
TCAGATGGATGGACAGTTTGTCTGGCTATTGATAGGAGTGGGGACTGGGTGGGGGCTTCTCCCTCTACCCAGGGCT  
GGGCTGATCCCCCTACTGCAACTAACTGTTGCCCCCAACCCCGAACCCCACTTGAGGAGTTGAGAGAGTGCAG  
GCTGGGGTCAGGACAGGCTGCGGATGCTTGTGCCTATGGGGAGTTACTCCAACCCACCTATTCTGTCTAATCTCC  
ATGGCTTTGCACCAAATCCTCCACCCCTCCAATTGGGAGGGGACTGTTACCCACCTTGTGGTAAGGGACAACACC  
CTAAGGCTGGTGCCAGTAGTTATGAGTAGCCTACCACCCCTCCCTTACAGTAACCCCAACCCCTTCAGGATCAG  
TCAAGGGAAAGCACTAGAACCCCTGGGTAGGGAAAGAAAGGAGGGAAAAACCATAAAAGGAATACTTATAATGTG  
AAGGTTTGTAATAAGTCCATGATGATGTCGTGGCAGAGTCTGATTTCTATATAGAGGTGACTTTTTTTTTTAAGTA  
CTGTGCAAGCTCTGTGCTTCTATAATGTGGGAAATGGCTTGGGGAGGATGGCCCTAGCTTAGGAAGACTGTTGT  
GTTATTTGTTCAATTTCAATAAAATGATTTGTAGATCCTGC

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**FIGURE 1154**

MGASGSKARGLWPFASAAGGGGSEAAGAEQALVRPRGRAVPPFVFTRRGSMFYDEDGDLAHEFYEETIVTKNGQK  
RAKLRRVHKNLIPQGIVKLDHPRIHVDFPVILYEV



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**FIGURE 1155**

GGCACGAGGCTGCGGCCGCCAGCTCCCGCGACCGCCTCTCCTGCCCCCTCGCCGGTACCTCAGCAAGGTGCCACTA  
GAAGCGCCAGGCTGGGGCCGCCTCTGAGCGCCCCGCGGGGGCCATGGATGGTGAAACAGCAGAGGAGCAGGGGGG  
CCCTGTGCCCCCGCCAGTTGCACCCGGCGGACCCGGCTTGGGCGGTGCTCCGGGGGGGCGGCGGGAGCCCAAGAA  
GTACGCAGTGACCGACGACTACCAGTTGTCCAAGCAGGTGCTGGGCCTGGGTGTGAACGGCAAAGTGCTGGAGTG  
CTTCCATCGGCGCACTGGACAGAAGTGTGCCCTGAAGCTCCTGTATGACAGCCCCAAGGCCCGGCAGGAGGTAGA  
CCATCACTGGCAGGCTTCTGGCGGCCCCCATATTGTCTGCATCCTGGATGTGTATGAGAACATGCACCATGGCAA  
GCGCTGTCTCCTCATCATCATGGAATGCATGGAAGGTGGTGAGTTGTTTACAGCAGGATTCAGGAGCGTGGCGACCA  
GGCTTTCACTGAGAGAGAAGCTGCAGAGATAATGCGGGATATTGGCACTGCCATCCAGTTTCTGCACAGCCATAA  
CATTGCCCCACCGAGATGTCAAGCCTGAAAACCTACTCTACACATCTAAGGAGAAAAGACGCAGTGCTTAAGCTCAC  
CGATTTTGGCTTTTGCTAAGGAGACCACCCAAAATGCCCTGCAGACACCCTGCTATACTCCCTATTATGTGGCCCC  
TGAGGTCTCTGGGTCCAGAGAAGTATGACAAGTCATGTGACATGTGGTCCCTGGGTGTCATCATGTACATCCTCCT  
TTGTGGCTTCCCACCTTCTACTCCAACACGGGCCAGGCCATCTCCCCGGGGATGAAGAGGAGGATTTCGCCTGGG  
CCAGTACGGCTTCCCCAATCCTGAGTGGTCAGAAGTCTCTGAGGATGCCAAGCAGCTGATCCGCCTCCTGTTGAA  
GACAGACCCACAGAGAGGCTGACCATCACTCAGTTCATGAACACCCCTGGATCAACCAATCGATGGTAGTGCC  
ACAGACCCCACTCCACACGGCCCCGAGTGCTGCAGGAGGACAAAGACCACTGGGACGAAGTCAAGGAGGAGATGAC  
CAGTGCCCTTGCCCACTATGCGGGTAGACTACGACCAGGTGAAGATCAAGGACCTGAAGACCTCTAACAACCGGCT  
CCTCAACAAGAGGAGAAAAAAGCAGGCAGGCAGCTCCTCTGCCTCACAGGGCTGCAACAACCAGTAGTTCATGGG  
GCCTTGAGGAGCCTGGCCTCTCAGCCTGCATAACAGACTGAAATGTGCTCAGGCCCTGGCCAGGAGGGCCCCAGG  
GTCATTCTTTTAACAAAAGGATTATTTTGTGTGTTTTAATTTGTCACTCGGAACCTCAGGATGGAGGACCCTGA  
CCCTAAGCCTCCTTCAGATCTCTGGCCCAGGCTCAAGCCCTAGAGATGGGCAGGGCCTAGGGGCTGGGAGCTGCC  
TGCTGCCATAGCAGCACCTTTAGCTAGGTTGGCCCCGAGTGAGGCCTCTGTGCTGTCCTGCCCTGGTGCATGGCCT  
TAGCTTTCTAGGCCACTGGGAGTTGTGGCTGGGCTTCCCATCTTCCACAGAGACATCTCCCTGTGGGATGGGCAG  
ATGGGCCTGGCCTTGAGAAAGGCATTGGCCATTGGTTGCCATGGTGACCAGGGACCACGTTGCTGCCTGTGAATG  
CTGAGTGAGCGAGTAAGGGAGGAGGGGCGATTGAGGGTTCACTCTGCCTTGGGGAGGCTGATTTCTCACACACT  
GGCTGGCCCTCTCATTCTCACTCCTCCTTGGGCCCTGAGGCTGCTGGATCCGGTCTGCCTGCCTCCCTGTGCAGT  
CCAGCCCTGCCTTGCTGCAGCCCCAGCCCAGATGGCACTCAGCGCTCTCCCCTGAGGGAGTCCCTGGGCCTAGCC  
ATCCCCTCACTATTCCCAGCCCAAAGGGTGACTTTTCATCTGAACTTAAGGTGGGAGATATTTTAACTTTTTTC  
CACTTTGGAAAATGTCACTGTGACAAAAGCCAGCATACTTTCCCTGCACCCATCTGCTCACCAGATCTCAGGCAG  
GAAAGCCCCCTCTCTGTTGAAGTCAGGGGCTATCTTTTGGTATACTTGTGTGAAAGTGGCTGGTTGGGAGCAGAGC  
TAAGTGGCTTCCCATTAACTGAGGTCTCTTTCTTTACTCTGGGTGACACCTGAGGTTGGGGAAGGCGACTGAGC  
CATGCTCAGAATGTCTGGTCCTGGCTTGGGCCTGAGTAGGGCAGAGAGGGCCTTTTCATGGCTGATCAGAGCTTAC  
CAGCCCCACCCACCATGGTAGCCTTAGGGTGCTGAGTGCCCTGATACTGCCTGACAAGTGCCTGACACGCAGCCT  
AGTTCCTTCCCTGGCCCTCTCTCACTGGCTGGGAAACCCCTAGACCATGTGAGATAGGACAACACTGCTGGGTTTT  
ACATCCAGATAGTAATAAACACCATTTCATCATT

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**FIGURE 1156**

MDGETAEEQGGPVPPPVPAPGGPGLGGAPGGRREPKKYAVTDDYQLSKQVLGLGVNGKVLECFHRRRTGQKCALKLL  
YDSPKARQEVDDHHWQASGGPHIVCILDVYENMHHGKRCLLIIMECMEGGELFSRIQERGDQAFTEREAAEIMRDI  
GTAIQFLHSHNIAHRDVKPENLLYTSKEKDAVLKLTDFGFAKETTONALQTPCYTPYYVAPEVLGPEKYDKSCDM  
WSLGVIMYILLCGFPPFYSENTGQAISPGMKRRIRLGQYGFPNPEWSEVSEDAKQLIRLLLKTDPETERLTITQFMN  
HPWINQSMVVPQTPLHTARVLQEDKDHWEVKEEMTSALATMRVDYDQVKIKDLKTSNNRLLNKRRKKQAGSSA  
SQGCNNQ

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**FIGURE 1157**

GGCGGCATTTCTGGTGTCTGAGCCTGGCGCGGAGGCTATGGGCAGCCAGGAGGTGCTGGGCCACGCGGCCCGGC  
TGGCCTCCTCCGGTCTCCTCCTGCAGGTGTTGTTTCGGTTGATCACCTTTGTCTTGAATGCATTTATTCTTCGCT  
TCCTGTCAAAGGAAATCGTTGGCGTAGTAAATGTAAGACTAACGCTGCTTTACTCAACCACCCTCTTCCTGGCCA  
GAGAGGCCTTCCGCAGAGCATGTCTCAGTGGGGGCACCCAGCGAGACTGGAGCCAGACCTCAACCTGCTGTGGC  
TAACAGTCCCCCTGGGTGTGTTTTGGTCCTTATTCTGGGCTGGATCTGGTTGCAGCTGCTTGAAGTGCCTGATC  
CTAATGTTGTCCCTCACTATGCAACTGGAGTGGTGTGTTTGGTCTCTCGGCAGTGGTGGAGCTTCTAGGAGAGC  
CCTTTTGGGTCTTGGCACAAGCACATATGTTTGTGAAGCTCAAGGTGATTGCAGAGAGCCTGTCGGTAATTCTTA  
AGAGCGTTCTGACAGCTTTTCTCGTGTGTGGTTGCCTCACTGGGGATTGTACATTTTCTCTTTGGCCCAGCTTT  
TCTATACCACAGTTCTGGTGTCTGTCTATGTTATTTATTTACAAAGTTACTGGGTTCGCCAGAATCAACCAAGC  
TTCAAACCTCTTCTGTCTCCAGAATAACAGATCTGTTACCCAATATTACAAGAAATGGAGCGTTTATAAACTGGA  
AAGAGGCTAAACTGACTTGGAGTTTTTTCAAACAGTCTTTCTTGAACAGATTTTGACAGAAGGCGAGCGATATG  
TGATGACATTTTTGAATGTATTGAACTTTGGTGATCAGGGTGTGTATGATATAGTGAATAATCTTGGCTCCCTTG  
TGGCCAGATTAAATTTCCAGCCAATAGAGGAAAGTTTTTATATATTTTTTGCTAAGGTGCTGGAGAGGGGAAAGG  
ATGCCACACTTCAGAAGCAGGAGGACGTTGCTGTGGCTGCTGCAGTCTTGGAGTCCCTGCTCAAGCTGGCCCTGC  
TGGCCGGCCTGACCATCACTGTTTTTGGCTTTGCCTATTCTCAGCTGGCTCTGGATATCTACGGAGGGACCATGC  
TTAGCTCAGGATCCGGTCTCTGTTTTGCTGCGTTCCCTACTGTCTCTATGTTCTCTGCTTGCCATCAATGGAGTGA  
CAGAGTGTTCACATTTGCTGCCATGAGCAAAGAGGAGGTCGACAGGTACAATTTTGTGATGCTGGCCCTGTCCT  
CCTCATTCTGGTGTATCCTATCTCTTGACCCGTTGGTGTGGCAGCGTGGGCTTCATCTTGGCCAACCTGCTTTA  
ACATGGGCATTTCGGATCACGCAGAGCCTTTGCTTCATCCACCGCTACTACCGAAGGAGCCCCACAGGCCCTGG  
CTGGCCTGCACCTATCGCCAGTCCTGCTCGGGACATTTGCCCTCAGTGGTGGGGTTACTGCTGTTTCGGAGGTAT  
TCCTCTGCTGTGAGCAGGGCTGGCCAGCCAGACTGGCACACATTGCTGTGGGGGCCTTCTGTCTGGGAGCAACTC  
TCGGGACAGCATTCTCACAGAGACCAAGCTGATCCATTTCTCAGGACTCAGTTAGGTGTGCCCAGACGCACTG  
ACAAAATGACATGACTTCAGGGAAGCCTGGACACCCGAGGCACCTGGACCAGCTATGGGTAGTTCTGTGGGTGGA  
ACACATTCTGTGTAAGAGCCCCACTGAGGGCTCTGCAGCGGAGTGACAGCAACCCCAAAGATGAGGCACCAGAGA  
GTGCCACTGCATGAGACACCTGTGACCATTGGAAGTCTGAAATGCGGGGGGGAGTTTCAATTTTAAGTGAAGAC  
CAAAAGCCCTTTAAAAATAATAGTTTTTTATCATTTTATAGTAAAAAAAAAAAAAAAAAGGGCGGACCATCAATCAG  
CACGCAGCAAGAAAAGCACATTCATACTAGACTATACAAAAAAAAAAAAAAAAA

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**FIGURE 1158**

MGSQEVLGHAARLASSGLLLQVLFRLITFVLNAFILRFLSKEIVGVNVRLTLLYSTTLFLAREAFRRACLSSGT  
QRDWSQTLNLLWLTVP LGVFWSLFLGWIWLQLLEVPDPNVVPHYATGVVLFGLSAVVELLGEPFWVLAQAHMFVK  
LKVIAESLSVILKSVLTAFVLVWLP HWGLYIFSLAQLFYTTVLVLCYVIYFTKLLGSPESTKLQTLPVSRITDLL  
PNITRNGAFINWKEAKLTWSFFKQSFLKQILTEGERYVMTFLNVLNFGDQGVYDIVNNLGSLVARLIFQPIEESF  
YIFFAKVLERGKDATLQKQEDVAVAAVLESLLKLALLAGLTITVFGFAYSQALDIYGGTMLSSGSGPVLLRSY  
CLYVLLLAINGVTECF TFAAMSKEEVD RYNFVMLALSSSFLVLSYLLTRWCGSVGFILANCFNMGIRITQSLCFI  
HRYYRRSPHRPLAGLHLSPVLLGTFALSGGVTAVSEVFLCCEQGWPARLAHIAVGAFCLGATLGTAFLTETKLIH  
FLRTQLGVPRRTDKMT

[illegible]

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**FIGURE 1160**

MESYHKPDQOKLQALKDTANRLRISSIQATTAAGSGHPTSCCSAAEIMAVLFFHTMRYKSQDPRNPHNDRFVLSK  
GHAAPILYAVWAEAGFLAEAE LLNLRKISSDLDGHPVPKQAF TDVATGSLGQGLGAACGMAYTGKYFDKASYRVY  
CLLGDGELSEG SVWEAMAFASIYKLDNLVAILDINRLGQSDPAPLQHQM DIYQKRCEAFGWHAIIVDGH SVEELC  
KAFGQAKHQPTAI IAKTFKGRGITGVEDKESWHGKPLPKNMAEQIIQEIYSQIQSKKKILATPPQEDAPSVDIAN  
IRMP SLPSYKVGDKIATRKAYGQALAKLGHASDRIIALDGD TKNSTFSEIFKKEHPDRFIECYIAEQNMVSI AVG  
CATRNRTVPFCSTFAAFFTRA FDQIRMAAISESNINLCGSHCGV SIGEDGPSQMALEDLAMFRSVPTSTV FYPSD  
GVATEKAVELAANTKGICFIRTSR PENAI IYNNNEDFQVGQAKVVLKSKDDQVTVIGAGVTLHEALAAAE LLKKE  
KINIRVLDPFTIKPLDRKLILDSARATKGRILTVEDHYE GGGIGEAVSSAVVGEPGITVTHLAVNRVPRSGKPAE  
LLKMF GIDRDAIAQAVRGLITKA

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**FIGURE 1161**

AGAAGCCTCCTGGCAGACACTGGAGCCACGATGAAGCCCCAAGGCCTGTCCGTACCTGCAGCAAAGTTCTCGTC  
CTGCTTTTCACTGCTGGCCATCCACCAGACTACTACTGCCGAAAAGAATGGCATCGACATCTACAGCCTCACCCTG  
GACTCCAGGGTCTCATCCCGATTTGCCACACGGTTCGTACCAGCCGAGTGGTCAATAGGGCCAATACTGTGCAG  
GAGGCCACCTTCCAGATGGAGCTGCCCCAAGAAAGCCTTCATCACCAACTTCTCCATGATCATCGATGGCATGACC  
TACCCAGGGATCATCAAGGAGAAGGCTGAAGCCCAGGCACAGTACAGCGCAGCAGTGGCCAAGGGAAAGAGCGCT  
GGCCTCGTCAAGGCCACCGGGAGAAACATGGAGCAGTTCCAGGTGTCCGGTCACTGTGGCTCCCAATGCCAAGATC  
ACCTTTGAGCTGGTCTATGAGGAGCTGCTCAAGCGGCGTTTGGGGGTGTACGAGCTGCTGCTGAAAGTGC GGCCC  
CAGCAGCTGGTCAAGCACCTGCAGATGGACATTACATCTTCGAGCCCCAGGGCATCAGCTTTCTGGAGACAGAG  
AGCACCTTCATGACCAACCAGCTGGTAGACGCCCTCACCACCTGGCAGAATAAGACCAAGGCTCACATCCGGTTT  
AAGCCAACACTTTCCAGCAGCAAAAGTCCCCAGAGCAGCAAGAAACAGTCTTGACGGCAACCTCATTATCCGC  
TATGATGTGGACCGGGCCATCTCCGGGGGCTCCATTAGATCGAGAACGGCTACTTTGTACACTACTTTGCCCCC  
GAGGGCCTAACCACAATGCCCAAGAATGTGGTCTTTGTCAATTGACAAGAGCGGCTCCATGAGTGGCAGGAAAATC  
CAGCAGACCCGGGAAGCCCTAATCAAGATCCTGGATGACCTCAGCCCCAGAGACCAGTTCAACCTCATCGTCTTC  
AGTACAGAAGCAACTCAGTGGAGGCCATCACTGGTGCCAGCCTCAGCCGAGAACGTGAACAAGGCCAGGAGCTTT  
GCTGCGGGCATCCAGGCCCTGGGAGGGACCAACATCAATGATGCAATGCTGATGGCTGTGCAGTTGCTGGACAGC  
AGCAACCAGGAGGAGCGGCTGCCCGAAGGGAGTGTCTCACTCATCATCCTGCTCACCAGTGGCGACCCCACTGTG  
GGGAGACTAACCCAGGAGCATCCAGAATAACGTGCGGGAAGCTGTAAGTGGCCGGTACAGCCTCTTCTGCCTG  
GGCTTCGGTTTCGACGTACGTATGCCTTCCTGGAGAAGCTGGCACTGGACAATGGCGGCTGGCCCGGCGCATC  
CATGAGGACTCAGACTCTGCCCTGCAGCTCCAGGACTTCTACCAGGAAGTGGCCAACCCACTGCTGACAGCAGTG  
ACCTTCGAGTACCCAAGCAATGCCGTGGAGGAGGTCACTCAGAACAACCTCCGGCTCCTCTTCAAGGGCTCAGAG  
ATGGTGGTGGCTGGGAAGCTCCAGGACCGGGGGCCTGATGTGCTCACAGCCACAGTCAGTGGGAAGCTGCCTACA  
CAGAACATCACTTTCCAAACGGAGTCCAGTGTGGCAGAGCAGGAGGCGGAGTTCCAGAGCCCCAAGTATATCTTC  
CACAACCTTCATGGAGAGGCTCTGGGCATACCTGACTATCCAGCAGCTGCTGGAGCAAACTGTCTCCGCATCCGAT  
GCTGATCAGCAGGCCCTCCGGAACCAAGCGCTGAATTTATCACTTGCTACAGCTTTGTACGCCCTCTCACATCT  
ATGGTAGTCACCAAACCCGATGACCAAGAGCAGTCTCAAGTTGCTGAGAAGCCCATGGAAGGCGAAAGTAGAAAC  
AGGAATGTCCACTCAGGTTCCACTTTCTTCAAATATTATCTCCAGGGAGCAAAAATACCAAACCCAGAGGCTTCC  
TTTTCTCCAAGAAGAGGATGGAATAGACAAGCTGGAGCTGCTGGCTCCCGGATGAATTTAGACCTGGGGTTCTC  
AGCTCCAGGCAACTTGGACTCCCAGGACCTCCTGATGTTCTGACCATGCTGCTTACCACCCCTCCGCGCTCTG  
GCCATCTTGCTGCTTACGACCAACCAGCCACCTCAAATCCTGATCCAGCTGTGTCTCGTGTGATGAATATGAAA  
ATCGAAGAAACAACCATGACAACCCAAACCCAGCCCCATACAGGCTCCCTCTGCCATCCTGCCACTGCCTGGG  
CAGAGTGTGGAGCGGCTCTGTGTGGACCCAGACACCGCCAGGGGCCAGTGAACCTGCTCTCAGACCTGAGCAA  
GGGTTGAGGTGACTGGCCAGTATGAGAGGGAGAAGGCTGGGTTCTCATGGATCGAAGTGACCTTCAAGAACCC  
CTGGTATGGGTTACGCATCCCTGAACACGTGGTGGTACTCGGAACCGAAGAAGCTCTGCGTACAAGTGGAAG  
GAGACGCTATTCTCAGTGTATGCCCGGCTGAAGATGACCATGGACAAGACGGGTCTCTGCTGCTCAGTGACCCA  
GACAAAGTGACCATCGGCCTGTTGTTCTGGGATGGCCGTGGGGAGGGGCTCCGGCTCCTTCTGCGTGACACTGAC  
CGCTTCTCCAGCCACGTTGGAGGGACCTTGGCCAGTTTACCAGGAGGTGCTCTGGGGATCTCCAGCAGCATCA  
GATGACGGCAGACGCACGCTGAGGGTTAGGGCAATGACCACTCTGCCACCAGAGAGCGCAGGCTGGATTACCAG  
GAGGGGCCCCCGGAGTGGAGATTTCTGCTGGTCTGTGGAGCTGTAGTTCTGATGGAAGGAGCTGTGCCACCC  
TGTACACTTGGCTTCCCCCTGCAACTGCAGGGCCGCTTCTGGGGCCTGGACCACCATGGGGAGGAAGAGTCCAC  
TCATTACAAATAAAGAAAGGTGGTGTGAGCCTGGG

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**FIGURE 1162**

GCGGCCGCCAAGCGATCCCTGCTCCGCGCGACACTGCGTGCCCGCGCACGCAGAGAGGCGGTGACGCACTTTACG  
GCGGCAGCGTAAGTGCGTGACGCTCGTCAGTGGCTTCAGTTCACACGTGGCGCCAGCGGAGGCAGGTTGATGTGT  
TTGTGCTTCCTTCTACAGCCAATATGAAAAGGCCTAAGTTAAAGAAAGCAAGTAAACGCATGACCTGCCATAAGC  
GGTATAAAATCCAAAAAAGGTTTCGAGAACATCATCGAAAATTAAGAAAGGAGGCTAAAAAGCGGGGTCACAAGA  
AGCCTAGGAAAGACCCAGGAGTTCCAAACAGTGCTCCCTTTAAGGAGGCTCTTCTTAGGGAAGCTGAGCTAAGGA  
AACAGAGGCTTGAAGAACTAAACAGCAGCAGAACTTGACAGGCAGAAGGAAGTAAAGAAAGAAAGAAACTTG  
AACTAATCCTGATATTAAGCCATCAAATGTGGAACCTATGGAAGAGGAGTTTGGGCTTTGCAAACTGAGAACA  
AAGCCAAGTCGGGCAAACAGAATTCAAAGAGCTGTACTGCCAAGAACTTAAAAAGGTGATTGAAGCCTCCGATG  
TTGTCCTAGAGGTGTTGGATGCCAGAGATCCTCTTGTTGCAGATGTCCTCAGGTAGAAGAGGCCATTGTCCAGA  
GTGGACAGAAAAAGCTGGTACTTATATTAAATAAATCAGATCTGGTACCAAAGGAGAATTTGGAGAGCTGGCTAA  
ATTATTTGAAGAAAGAATTGCCAACAGTGGTGTTTCAGAGCCTCAACAAAACCAAAGGATAAAGGGAAGATAACCA  
AGCGTGTGAAGGCAAAGAAGAATGCTGCTCCATTCAGAAGTGAAGTCTGCTTTGGGAAAGAGGGCCTTTGGAAAC  
TTCTTGGAGGTTTTTCAGGAACTTGCGAGCAAAGCCATTTCGGGTTGGAGTAATTGGTTTCCCAAATGTGGGGAAAA  
GCAGCATTATCAATAGCTTAAACAAGAACAGATGTGTAATGTTGGTGTATCCATGGGGCTTACAAGGAGCATGC  
AAGTTGTCCCTTGGACAAACAGATCACAATCATAGATAGTCCGAGCTTCATCGTATCTCCACTTAATTCCTCCT  
CTGCGCTTGCTCTGCGAAGTCCAGCAAGTATTGAAGTAGTAAACCGATGGAGGCTGCCAGTGCCATCCTTTCCC  
AGGCTGATGCTCGACAGGTAGTACTGAAATATACTGTCCCAGGCTACAGGAATTCTCTGGAATTTTTTACTGTGC  
TTGCTCAGAGAAGAGGTATGCACCAAAAAGGTGGAATCCCAAATGTTGAAGGTGCTGCCAACTGCTGTGGTCTG  
AGTGGACAGGTGCCTCATTAGCTTACTATTGCCATCCCCCTACATCTTGGACTCCTCCTCCATATTTAATGAGA  
GTATTGTGGTAGACATGAAAAGCGGCTTCAATCTGGAAGAACTGGAAAAGAACAATGCACAGAGCATAAGAGCCA  
TCAAGGGCCCTCATTTGGCCAATAGCATCCTTTTCCAGTCTCCGGTCTGACAAATGGAATAATAGAAGAAAAGG  
ACATACATGAAGAATTGCCAAAACGGAAGAAAGGAAGCAGGAGGAGAGGGAGGATGACAAAGACAGTGACCAGG  
AACTGTTGATGAAGAAGTTGATGAAAACAGCTCAGGCATGTTTGTGTCAGAAGAGACAGGGGAGGCAGTGTCTG  
AGGAGACTACAGCAGGTGAACAGTCTACAAGGTCTTTTATCTTGATAAAATCATTGAAGAGGATGATGCTTATG  
ACTTCAGTACAGATTATGTGTAACAGAACAATGGCTTTTTATGATTTTTTTTTTAACATTTTAAGCAGACTGCTA  
AACTGTTCTCTGTATAAGTTATGGTATGCATGAGCTGTGTAATTTTGTGAATATGTATTATATTAACCAGGC  
AACTTGAATCCCTAAATTCTGTAAAAAGACAATTCATCTCATTGTGAGTGGAAGTAGTTATCTGGAATAAAAAA  
AGAAGATACCTATTG



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**FIGURE 1163A**

ACTCTGTCCTGGACAGCGTGCCACACAGCCATGGCGGGGGCCCCGGGGCCTCCTCCCCTCTGCCTCCTGGCCTTC  
TGCCCTGGCAGGCTTCAGCTTCGTACAGGGGGCAGGTGCTGTTCAAAGGCTGTGATGTGAAAACCACGTTTGTCACT  
CATGTACCCCTGCACCTCGTGC CGGGCCATCAAGAAGCAGACGTGTCCCTCAGGCTGGCTGCGGGAGCTCCCGGAT  
CAGATAACCCAGGACTGCCGCTACGAAGTACAGCTGGGGGGCTCTATGGTGTCCATGAGCGGCTGCAGACGGAAG  
TGCCGGAAGCAAGTGGTGCAGAAGGCCTGCTGCCCTGGCTACTGGGGTTCCCGGTGCCATGAATGCCCTGGGGGGC  
GCTGAGACCCCATGCAATGGCCACGGGACCTGCTTGGATGGCATGGACAGGAATGGGACCTGTGTGTGCCAGGAA  
AACTTCCGCGGCTCAGCCTGCCAGGAGTGCCAAGACCCCCAACCGGTTCCGGCCTGACTGCCAATCGGTGTGCAGC  
TGTGTGCACGGAGTGTGCAACCATGGGCCACGTGGGGATGGAAGCTGCCCTGTGCTTTGCTGGATACACTGGCCCC  
CACTGTGATCAAGAGCTGCCCGTCTGCCAGGAGCTGCGCTGTCCCCAGAACACCCAGTGCTCCGCAGAGGCTCCC  
AGCTGCAGGTGCCCTGCCCGGTACACACAGCAGGGCAGTGAATGCCGAGCCCCAACCCCTGCTGGCCATCACCC  
TGCTCACTGCTGGCCAGTGCTCGGTGAGCCCCAAGGGGCAGGCTCAGTGTCACTGCCCTGAGAACTACCATGGC  
GATGGGATGGTGTGTCTGCCCAAGGACCCATGCACTGACAACCTTGGTGGCTGCCCCAGCAACTCTACTTTGTGT  
GTGTACCAGAAGCCGGGGCAGGCCTTCTGCACCTGCCGGCCAGGCCTGGTCAGCATCAACAGCAACGCTTCTGCG  
GGCTGCTTCGCCTTCTGCTCCCCCTTCTCCTGCGACCGGTCTGCCACTTGCCAGGTGACCGCTGATGGGAAGACC  
AGCTGTGTGTGCAGGGAAAGCGAGGTGGGGGATGGGCGTGCCTGCTACGGACACCTGCTCCACGAGGTGCAGAA  
GCCACGCAGACAGGCCGGGTGTTCTGCACTGAGGGTGCCTGTGGCCATGATGGACCAGGGCTGCCGGGAAATC  
CTTACCACAGCGGGCCCTTTACCGTGCTGGTGCCATCCGTCTCCTCCTTCTCCTCCAGGACCATGAATGCATCC  
CTTGCCACAGCAGCTCTGTAGACAGCACATCATCGCAGGGCAGCACATCCTGGAGGACACAAGGACCCAAACAAACA  
CGAAGGTGGTGGACGCTGGCCGGGCAGGAGATCACCGTCACCTTTAACCAATTACGAAATACTCCTACAAGTAC  
AAAGACCAGCCCCAGCAGACGTTCAACATCTACAAGGCCAACACATAGCAGCTAATGGCGTCTTCCACGTGGTC  
ACTGGCCTGCGGTGGCAGGCCCCCTCTGGGACCCCTGGGGATCCCAAGAGAACTATCGGACAGATCCTCGCCTCT  
ACCGAGGCCTTCAGCCGCTTTGAAACCATCCTGGAGAACTGTGGGCTGCCCTCCATCCTGGACGGACCTGGGGCC  
TTCACAGTCTTTGCCCAAGCAATGAGGCTGTGGACAGCTTGCGTGACGGCCGCCTGATCTACCTCTTCACAGCG  
GGTCTCTCTAAACTGCAGGAGTTGGTGCGGTACCACATCTACAACCACGGCCAGCTGACCGTTGAGAAGCTCATC  
TCCAAGGGTCGGATCCTCACCATGGCGAACAGGTCTGGCTGTGAACATTTCTGAGGAGGGGCGCATCCTGCTG  
GGACCCGAGGGGTCCCGCTGCAGAGGGTAGACGTGATGGCCGCCAATGGTGTGATCCACATGCTGGACGGCATC  
CTGCTGCCCCCGACCATCCTGCCCATCCTGCCCAAGCACTGCAGCGAGGAGCAGCACAAAGATTGTGGCGGGCTCC  
TGTGTGGACTGCCAAGCCCTGAACACCAGCACGTGTCCCCCAACAGTGTGAAGCTGGACATCTTCCCCAAGGAG  
TGTGTCTACATCCATGACCCAACGGGGCTCAATGTGCTAAAGAAGGGCTGTGCCAGCTACTGCAACCAACCATC  
ATGGAACAAGGCTGCTGCAAAGGTTTTTTTCGGGCCTGACTGCACGCAGTGTCTGGGGGCTTCTCCAACCCCTGC  
TATGGCAAAGGCAATTGCAGTGATGGGATCCAGGGCAATGGGGCCTGCCTCTGCTTCCCAGACTACAAGGGCATC  
GCCTGCCACATCTGCTCGAACCCAAACAAGCATGGAGAGCAATGCCAGGAAGACTGCGGCTGTGTCCATGGTCTC  
TGCGACAACCGCCAGGCAGTGGGGGGGTGTGCCAGCAGGGCACGTGTGCCCTGGCTTCAGTGGCCGGTTCTGC  
AACGAGTCCATGGGGGACTGTGGGCCCCACAGGGCTGGCCACGACTGCCACCTGCATGCCCCGCTGTGTAGCCAG  
GAGGGTGTGGCAGATGTGCTGTCTTGATGGCTTTGAGGGTGATGGCTTCTCCTGCACACCTAGCAACCCCTGC  
TCCCACCCGGACCGTGGAGGCTGCTCAGAGAATGCTGAGTGTGTCCCTGGGTCCCTGGGCACCCACCACTGCACA  
TGCCACAAAGGCTGGAGTGGGGATGGCCGCTGTGTGTGGCTATTGACGAGTGTGAGCTGGACATGAGAGGTGGC  
TGCCACACCGATGCCCTCTGCAGCTATGTGGGCCCCGGGCAGAGCCGATGCACCTGCAAGCTGGGCTTTGCCGGG  
GATGGCTACCACTGCAGCCCCATCGACCCCTGCCGGGCAGGCAATGGCGGCTGCCACGGCCTGGCCACCTGCCGG  
GCAGTGGGGGGAGGTGAGCGGGTCTGCACGTGCCCCCTGGCTTTGGGGGTGATGGCTTCAGCTGTTATGGAGAC  
ATCTTCCGGGAGCTGGAGGCAATGCCCACTTCTCCATCTTCTACCAATGGCTTAAGAGTGCCGGCATCACGCTT  
CCTGCCGACCGCCGAGTCACAGCCCTGGTGCCCTCCGAGGCTGCAGTCCGTGAGCTGAGCCCCGAGGACCGAGCT  
TTCTGGCTGCAGCCAAGGACGCTGCCGAACCTGGTCAGGGCCATTTTCTCCAGGGTGCCCTCTTCGAGGAGGAG  
CTGGCCCGGCTGGGTGGGCAGGAAGTGCCACCCCTGAACCCACACACGCTGGGAGATTGCAACATTAGTGGG  
AGGGTCTGGGTGCAGAATGCCAGCGTGATGTGGCTGACCTCCTTGCCACCAACGGTGTCTACACATCCTCAGC  
CAGGTCTTACTGCCCCCCCCGAGGGGATGTGCCCGGTGGGCAGGGGTTGCTGCAGCAGCTGGACTTGGTGCCTGCC  
TTCAGCCTCTTCCGGGAATTGCTGCAGCACCATGGGTGGTGCCCGAGATTGAGGCTGCCACTGCCCTACACCATC  
TTTGTGCCACCAACCGCTCCCTGGAGGGCCAGGGCAACAGCAGTCACCTGGACGCAGACACAGTGCGGCACCAT

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**FIGURE 1163B**

GTGGTCCTGGGGGAGGCCCTCTCCATGGAAACCCTGCGGAAGGGTGGACACCGCAACTCCCTCCTGGGCCCTGCC  
CACTGGATCGTCTTCTACAACCACAGTGGCCAGCCTGAGGTGAACCATGTGCCACTGGAAGGCCCATGCTGGAG  
GCCCCTGGCCGCTCGCTGATTGGTCTGTGCGGGGTCCTGACGGTGGGCTCAAGTCGCTGCCTGCATAGCCACGCT  
GAGGCCCTGCGGGAGAAATGTGTAACTGCACCAGGAGATTCCGCTGCACTCAGGGCTTCCAGCTGCAGGACACA  
CCCAGGAAGAGCTGTGTCTACCGATCTGGCTTCTCCTTCTCCCGGGGCTGCTCTTACACATGTGCCAAGAAGATC  
CAGGTGCCGGACTGCTGCCCTGGTTTCTTTGGCACGCTGTGTGAGCCATGCCCAGGGGGTCTAGGGGGGGTGTGC  
TCAGGCCATGGGCAGTGCCAGGACAGGTTCTTGGGCAGCGGGGAGTGCCACTGCCACGAGGGCTTCCATGGAACG  
GCCTGTGAGGTGTGTGAGCTGGGCCGCTACGGGGCCAACTGCACCGGAGTGTGTGACTGTGCCATGGGCTGTGC  
CAGGAGGGGCTGCAAGGGGACGGAAGCTGTGTCTGTAACTGCGCTGGCAGGGCTCCGCTGTGACCAGAAAATC  
ACCAGCCCTCAGTGCCTTAGGAAGTGCACCCCAATGCCAACTGCGTGCAGGACTCGGCCGGAGCCTCCACCTGC  
GCCTGTGCTGCGGGATACTCCGGCAATGGCATCTTCTGTTTACAGAGTGGACCCCTGCGCCACGGCCATGGGGGC  
TGCTCCCCCTCATGCCAACTGTACCAAGGTGGCACCTGGGCAGCGGACATGCACCTGCCAGGATGGCTACATGGGC  
GACGGGGAGCTGTGCCAGGAAATTAACAGCTGTCTCATCCACCACGGGGGCTGCCACATTCACGCCGAGTGCATC  
CCCACTGGCCCCCAGCAGGTCTCCTGCAGCTGCCGTGAGGGTTACAGCGGGGATGGCATCCGGACCTGCGAGCTC  
CTGGACCCCTGCTCTAAGAACAAATGGAGGATGCAGCCCATATGCCACCTGCAAAAGCACAGGGGATGGCCAGAGG  
ACATGTACCTGCGACACAGCCACACCGTGGGGGACGGCCTCACCTGCCGTGCCGAGTGGCCCTGGAGCTCCTG  
AGGGATAAGCATGCCTCATTCTTCAGCCTCCGCCTCCTGGAATATAAGGAGCTCAAGGGCGATGGGCCCTTTCACC  
ATCTTCGTGCCGCACGCAGATCTAATGAGCAACCTGTGCGAGGATGAGCTGGCCCGGATTCTGTGCGCATCGCCAG  
CTGGTGTTCGCTACCACGTGGTTGGCTGTGCGCGGCTGCGGAGCGAGGACCTGCTGGAGCAGGGGTACGCCACG  
GCCCTCTCAGGGCACCCACTGCGCTTACGCGAGAGGGAGGGCAGCATATACCTCAATGACTTCGCGCGCGTGGTG  
AGCAGCGACCATGAGGCCGTGAACGGCATCCTGCACCTTATTGACCGTGTCTGCTGCCCCCGAGGCGCTGCAC  
TGGGAGCCTGATGATGCTCCCATCCCGAGGAGAAATGTCACCGCCGCCGCCAGGGCTTCGGTTACAAGATCTTC  
AGCGGCCTCCTGAAGGTGGCCGGCCTCCTGCCCCGCTTCGAGAGGCATCCCATAGGCCCTTACAATGCTGTGG  
CCACAGACGCCGCCCTTTCGAGCTCTGCCTCCGGATCGCCAGGCCTGGCTGTACCATGAGGACCACCGTGACAAG  
CTAGCAGCCATTCTGCGGGGCCACATGATTGCAATGTGAGGCCTTGGCATCTGACCTGCCAACCTGGGCCCA  
CTTGAACCATGCATGGGACCCCCATCTCTTTCTCCTGCAGCCGAACGCGGGCCGGTGAGCTCATGGTGGGTGAG  
GATGATGCTCGCATTGTGACGCGGCACTTGCCCTTTGAGGGTGGCCTGGCCTATGGCATCGACCAGCTGCTGGAG  
CCACCTGGCCTTGGTGCTCGCTGTGACCACTTTGAGACCCGGCCCTGCGACTGAACACCTGCAGCATCTGTGGG  
CTGGAGCCACCTGTCTGAGGGGTACAGGAGCAGGGCAGCCCTGAGGCCTGCTGGCGCTTCTACCCGAAGTTC  
TGGACGTCCCCCTCCGCTGCACCTCTTTGGGATTACGCAGCGTCTGGGTCCACCCAGCCTTTGGGGTAGGCCCCAA  
GGCCTGGGCAGGGGCTGCCACCGCAATTGTGTACCAACACCTGGAAGCCCAGCTGCTGCCCTGGTCACTATGGC  
AGTGAGTGCCAAGCTTGCCCTGGCGGCCCCAGCAGCCCTTGTAGTGACCGTGGCGTGTGCATGGACGGCATGAGT  
GGCAGTGGGCAGTGTCTGTGCCGTTACAGTTTTGTGGGACAGCCTGTGAACTCTGTGCTCCTGGTGCCTTTGGG  
CCCCATTGTCAAGCCTGCCGCTGCACCTGTGCATGGCCGCTGTGATGAGGGCCTTGGGGGCTCTGGCTCCTGCTTC  
TGTGATGAAGGCTGGACTGGGCCACGCTGTGAGGTGCAACTGGAGCTGCAGCCTGTGTGTACCCACCCCTGTGCA  
CCCGAGGCTGTGTGCCGTGCAGGCAACAGCTGTGAGTGCAGCCTGGGCTATGAAGGGGATGGCCGTGTGTGTACA  
GTGGCAGACCTGTGCCAGGACGGGCATGGTGGCTGCAGTGAGCAGCCAACTGTAGCCAGGTAGGAACAATGGTC  
ACTTGTACCTGCCTGCCCCACTACGAGGGTGTGGCTGGAGCTGCCGGGCCCCGCAACCCCTGCACAGATGGCCAC  
CGCGGGGGCTGCAGCGAGCACGCCAACTGCTTGAGCACGGCCTGAACACACGGCGCTGTGAGTGCCACGCAGGC  
TACGTAGGCGATGGACTGCAGTGTCTGGAGGAGTCGGAACCACTGTGGACCGCTGCTTGGGCCAGCCACCGCCC  
TGCCACTCAGATGCCATGTGCACTGACCTGCACTTCCAGGAGAAACGGGGCTGGCGTTTTCCACCTCCAGGCCACC  
AGCGGCCCTTATGGTCTGAACCTTTTCGGAGGCTGAGGCGGCATGCGAAGCACAGGGAGCCGCTCTTGCTTCATTC  
CCTCAGCTCTCTGCTGCCAGCAGCTGGGCTTCCACCTGTGCCTCATGGGCTGGCTGGCCAATGGCTCCACTGCC  
CACCTGTGGTTTTCCCTGTGGCGGACTGTGGCAATGGTCGGGTGGGCATAGTCAGCCTGGGTGCCCGCAAGAAC  
CTCTCAGAACGCTGGGATGCCCTACTGCTTCCGTGTGCAAGATGTGGCCTGCCGATGCCGAAATGGCTTCGTGGGT  
GACGGGATCAGCACGTGCAATGGGAAGCTGCTGGATGTGCTGGCTGCCACTGCCAACTTCTCCACCTTCTATGGG  
ATGCTATTGGGCTATGCCAATGCCACCCAGCGGGGTCTCGACTTCCCTGGACTTCCCTGGATGATGAGCTCACGTAT  
AAGACACTCTTCGTCCCTGTCAATGAAGGCTTTGTGGACAACATGACGCTGAGTGGCCAGACTTGGAGCTGCAT

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**FIGURE 1163C**

GCCTCCAACGCCACCCTCCTAAGTGCCAACGCCAGCCAGGGGAAGTTGCTTCCGGGCCACTCAGGCCTCAGCCTC  
ATCATCAGTGACGCAGGCCCTGACAACAGTTCCTGGGCCCCTGTGGCCCCAGGGACAGTTGTGGTTAGCCGTATC  
ATTGTGTGGGACATCATGGCCTTCAATGGCATCATCCATGCTCTGGCCAGCCCCCTCCTGGCACCCCCACAGCCC  
CAGGCAGTGCTGGCGCCTGAAGCCCCACCTGTGGCGGCAGGCGTGGGGGCTGTGCTTGCCGCTGGAGCACTGCTT  
GGCTTGGTGGCCGGAGCTCTCTACCTCCGTGCCCCAGGCAAGCCCATGGGCTTTGGCTTCTCTGCCTTCCAGGCG  
GAAGATGATGCTGATGACGACTTCTCACC GTGGCAAGAAGGGACCAACCCCAACCTGGTCTCTGTCCCCAACCT  
GTCTTTGGCAGCGACACCTTTTGTGAACCTTCGATGACTCACTGCTGGAGGAGGACTTCCCTGACACCCAGAGG  
ATCCTCACAGTCAAGTGACGAGGCTGGGGCTGAAAGCAGAAGCATGCACAGGGAGGAGACCACTTTTATTGCTTG  
TCTGGGTGGATGGGGCAGGAGGGGCTGAGGGCCTGTCCAGACAATAAAGGTGCCCTCAGCGGATGTGGGC

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**FIGURE 1164**

MAGPRGLLPCLLAFCLAGFSFVRGQVLFKGC DVKTTFVTHVPCTSCAAIKKQTCPSGWLRELPDQITQDCRYEV  
QLGGSMVMSGCRRKCRKQV VQKACCPGYWGSRCHECPGGAETPCNGHGTCLDGM DRNGTCVCQENFRGSACQEC  
QDPNRFPGPDCQSVCS CVHGV CNHGPRGDGSCLCFAGYTGP HCDQELPVCQELRCPQNTQCSAEAPSCRCLPGYTQ  
QGSECRAPNPCWPSPCSLLAQCSVSPKQQAQCHCPENYHGDGMVCLPKDPCTDNLGGCPSNSTLCVYQKPGQAF C  
TCRPGLV SINSNASAGCFAFCSPFSCDRSATCQVTADGKTSCVCRESEVGDGRACYGHLLHEVQKATQTGRVFLQ  
LRVAVAMMDQGCREILT TAGPFTVLVPSVSSFSRTMNASLAQQLCRQHIIAGQHILEDTRTQQTRRWWTLAGQE  
ITVTFNQFTKYSYKYKDQPQOTFNIYKANNIAANGVFHVVTGLRWQAPSGTPGDPKRTIGQILASTEAFSRFETI  
LENCGLPSILDGPGPFTV FAPSNEAVDSL RDGRLIYLF TAGLSKLQELVRYHIYNHGQLTVEKLI SKGRILTMAN  
QVLAVNISEEGRILLGPEGVPLQRVDVMAANGVIHMLDGILLPPTILPILPKHCSEEQHKIVAGSCVDCQALNTS  
TCPPNSVKLDIFPKECVYIHDPTGLNVLKKGCA SYCNQTIMEQGCKGFFGPDCTQCPGGFSNFCYKGKNCSDGI  
QNGACLCFPDYKGIACHICSNPNKHGEQCQEDCGCVHGLCDNRPGSGGVCQQGT CAPGFSGRFCNESMGDCGPT  
GLAQHCHLHARCVSQEGVARCRCLDGFEGDGF SCTPSNPCSHPD RGGSSENAECVPGSLGTHHCTCHKGWSGDGR  
VCVAIDECELDMRGGCHTDALCSYVGPGQSRCTCKLGFAGDGYQCSPIDPCRAGNGGCHGLATCRAVGGGQ RVCT  
CPPGFGGDGFSCYGDIFRELEANAHFSIFYQWLKSAGITLPADRRVTALVPSEAAVRQLSPEDRAFWLQ PRTL PN  
LVRAHFLQ GALFEEELARLGGQEVATLNPTTRWEIRNISGRVWVQNASVDVADLLATNGVLHILSQVLLP PRGDV  
PGGQGLLQQLDLVPAFSLFRELLOHHGLVPQIEAATAYTIFVPTNRSLEAQGNSSHL DADTVRHHVVLGEALSME  
TLRKGGHRNSLLGPAHWIVFYNHSGQFEVNHVPLEGPMLEAPGRSLIGLSGVLTVGSSRCLHSHAEALREKVCNC  
TRRFRTQGFQLQDTPRKSCVYRS GFSSRGCSYTC AKKIQVPDCCPGFFGTLC EPCPGGLGGVCSGHGQCQDRF  
LGSGECHCHEGFHGTACEVCELGRYGP NCTGVCDCAHGLCQEG LQGDGSCVCNVGWQGLRCDQKITSPQCPRKCD  
PNANCVQDSAGASTCACAAGYSGNGIFCSEVDPCA HGHGGCSPHANTKVAPGQRTCTCQDGYMGD GELCQEINS  
CLIHGGGCHIAECIPTGPQQVSCSCREGYSGD GIRTCELLDPCSKNNGGCSPYATCKSTGDGQRTCTCDTAHTV  
GDGLTCRARVGLELLRDKHASFFSLRLLEYKELKGDGPFTIFVPHADLMSNLSQDELARIRAH RQLVFRYHVVC  
RRLRSED LLEQGYATALSGHPLRF SEREGSIYLNDFARVVSSDHEAVNGILHFIDRVLLPPEALH WEPDDAP IPR  
RNVTA AAQGFYKIFSGLLKVAGLLPLLREASHRPFTMLWPTDAAFRALPPDRQAWLYHEDHRDKLAAILRGHMI  
RNVEALASDLPNLGPLRTMHGTPISFSCSRTRAGELMVGEDDARIVQRHLPFEGGLAYGIDQLLEPPGLG ARCDH  
FETRPLRLNTCSICGLEPPCPEGSQE QGSPEACWRFYPKFWTSPPLHSLGLRSVWVHPSLWGRPQGLGRGCH RNC  
VTTTWKPSCCPGHYGSECQACPGGPSSP CSDRGVCM DMSGSGQCLCRSGFAGTACELCAPGAFGPHCQACRCTV  
HGRCDEGLGGSGSCFCDEGWTGPRCEVQLELQP VCTPPCAPEAVCRAGNSCECSLGYEGDGRVCTVADLCQDGHG  
GCSEHANCSQVGTMTCTCLPDYEGDGWSCRARNPCTD GHRGGCSEHANCLSTGLNTRRCECHAGYVGDGLQCLE  
ESEPPVDRCLGQPPPCHSDAMCTDLHFQEK RAGVFHLQATSGPYGLNFSEAEAAQGAQAVLASFPQLSAAQQLG  
FHLCLMGWLANGSTAHPVVPVADCGNGRVGIVSLGARKNLSE RWDAYCFRVQDVACRCRNGFVGDGISTCNGKL  
LDVLAATANFSTFYGMLLGYANATQRGLDFLDFL DDELTYKTLFVPVNEG FVDNMTLSGPDLELHASNATLLSAN  
ASQ GKLLPAHSGLSLII SDAGPDNSSWAPVAPGTVVVSRIIVWDIMAFNGIIHALASPLLAPPQPAVLAPEAPP  
VAAGVGAVLAAGALLGLVAGALYLRARGKPMGFGFSAFQAEDDADDDFSPWQEGTNPTLVSVPNPVFGSDTFCEP  
FDDSLLEEDFPDTQRILTVK

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**FIGURE 1165A**

GCGGCGGTGGCGGCGGAGACCCGAACATGCGGACCGCGCGCACCTTCGGGCCCCGAGCGGGAAGCCGAGCCGGCCA  
AGGAAGCGCGCTCGTGGGCTCGGAGCTTGTGGACACTTATACGGTTTACATCATCCAGGTCACTGATGGCAGCC  
ATGAGTGGACAGTAAAGCACCGCTACAGCGACTTCCATGACCTGCATGAAAAGCTCGTTGCAGAGAGAAAGATTG  
ATAAAAACCTGCTTCCGCCCAAAAAGATAATTGGGAAAACTCAAGAAGCTTGGTGGAGAAGAGGGGAGAAGGATC  
TGGAGGTCTACCTCCAGAAGCTCCTGGCTGCCTTCCCTGGCGTGACCCCCAGAGTACTGGCCCACTTCTTGCAATT  
TTCACCTTCTATGAGATAAATGGCATCACCGCGGCACTGGCTGAAGAGCTCTTTGAGAAAAGGAGAACAGCTCCTGG  
GGGCCGGCGAGGTCTTTGCCATTGGACCCCTGCAGCTGTATGCCGTACCGAGCAGCTGCAGCAGGGAAAGCCCA  
CGTGCGCCAGTGGGGATGCCAAGACCGACCTCGGGCACATCCTGGACTTCACCTGTGCGCTTAAGTACCTTAAGG  
TTTCTGGCACAGAAGGACCTTTTGGGACCAGCAACATTACAGGAGCAGCTCCTGCCGTTTCGACCTATCAATATTCA  
AGTCCCTGCATCAGGTGGAGATAAGTCACTGTGATGCTAAGCACATCAGAGGGCTGGTCGCATCGAAGCCACCT  
TAGCCACGCTGAGTGTCCGCTTCTCAGCAACCTCGATGAAGGAAGTCCTTGTTCCTGAAGCCTCAGAATTTGATG  
AGTGGGAGCCTGAAGGCACAACCCTAGAAGGCCCTGTGACTGCCGTACATCCCACTTGGCAGGCATTGACCACGC  
TTGACCTGAGCCACAACAGCATCTCCGAGATCGACGAGTCTGTGAACTGATCCCAAAGATTGAGTTCTTGACC  
TGAGTCACAATGGATTGCTGGTTGTGGACAATCTGCAGCACCTGTATAACCTTGTGCATCTGGACCTGTCCTACA  
ACAAGCTCTCCTCCTTGAAGGGCTTACACCAAGCTGGGGAACATCAAGACCTTAACCTGGCAGGCAACCTCC  
TAGAGAGTCTGAGTGGCCTGCACAAGCTCTACTACTGGTCAACCTGGATCTCCGGGACAACAGGATCGAACAGA  
TGGAGGAGGTCCGGAGCATAGGCAGCCTCCCGTGTCTGGAGCAGTGTCTCTGCTGAACAACCTCTGAGCATCA  
TCCCCGACTACCGGACCAAGGTGCTGGCTCAGTTCCGAGAGAGGGCCTCAGAGGTCTGTCTGGATGACACAGTGA  
CCACAGAGAAGGAGCTGGACACTGTGGAAGTGTGAAAGCAATTCAGAAAGCCAAGGAGGTCAAGTCCAACTGA  
GCAACCCAGAGAAGAAGGGTGGTGAAGACTCCCGGCTCTCAGCTGCCCCCTGCATCAGACCCAGCAGCTCCCCTC  
CCACTGTGGCTCCCGCATCTGCCTCCCTGCCCCAGCCCATCCTCTCTAACCAAGGAATCATGTTCTGTTTCAAGGAG  
AGGCCCTGGCCAGCAGCCTCTCGTCCACTGACAGTCTGACTCCCGAGCACCAGCCATTGCCAGGGATGTTCTG  
ATTCTTGGAGTCCATCCCTGCGGGACAGGCAGCTTCCGATGATTTAAGGGACGTGCCAGGAGCTGTTGGTGGTG  
CAAGCCCAAGACATGCCGAGCCGGAGGTCCAGGTGGTGGCGGGGTCTGGCCAGATCATCTTCTGCCCCCTCACCT  
GCATTGGCTACACGGCCACCAATCAGGACTTCATCCAGCGCCTGAGCACACTGATCCGGCAGGCCATCGAGCGGC  
AGCTGCCTGCCTGGATCGAGGCTGCCAACCAGCGGGAGGAGGGCCAGGGTGAACAGGGCGAGGAGGAGGATGAGG  
AGGAGGAAGAAGAGGAGGACGTGGCTGAGAACCCTACTTTGAAATGGGGCCCCCAGACGTGGAGGAGGAGGAGG  
GAGGAGGCCAGGGGGAGGAAGAGGAGGAGGAAGAGGAGGATGAAGAGGCCGAGGAGGAGCGCCTGGCTCTGGAAT  
GGGCCCTGGGCGCGGACGAGGACTTCTGCTGGAGCACATCCGCATCCTCAAGGTGCTGTGGTGCTTCTGATCC  
ATGTGCAGGGCAGTATCCGCCAGTTCCGCCCTGCCTTGTGCTCACCAGCTTCGGCATCGCAGTCTTCGAGATCC  
CGCACCAGGAGTCTCGGGGCGAGCAGCCAGCACATCCTCTCCTCCCTGCGCTTTGTCTTTTGTCTCCCGCATGGCG  
ACCTACCGAGTTTGGCTTCTCATGCCGAGCTGTGTCTGGTGTCTAAGGTACGGCACAGTGAGAACACGCTCT  
TCATTATCTCGGACGCCGCCAACCTGCACGAGTTCCACGCGGACCTGCGCTCATGCTTTGCACCCAGCACATGG  
CCATGCTGTGTAGCCCCATCCTCTACGGCAGCCACACCAGCCTGCAGGAGTTCCTGCGCCAGCTGCTCACCTTCT  
ACAAGGTGGCTGGCGGCTGCCAGGAGCGCAGCCAGGGCTGCTTCCCGTCTACCTGGTCTACAGTGACAAGCGCA  
TGGTGCAGACGGCCGCCGGGACTACTCAGGCAACATCGAGTGGGCCAGCTGCACACTCTGTTACAGCCGTGCGGC  
GCTCCTGCTGCGCGCCCTCTGAGGCCGTCAAGTCCGCCGCCATCCCTACTGGCTGTTGCTCACGCCCCAGCACC  
TCAACGTCTATCAAGGCCGACTTCAACCCCATGCCAACCGTGGCACCCACAACCTGTCGCAACCGCAACAGCTTCA  
AGCTCAGCCGTGTGCCGCTCTCCACCGTGTGCTGGACCCACACGCAGCTGTACCCAGCCTCGGGGCGCCTTTG  
CTGATGGCCACGTGCTAGAGCTGCTCGTGGGGTACCGCTTTGTCACTGCCATCTTCGTGCTGCCCCACGAGAAGT  
TCCACTTCTGCGCGTCTACAACCAGCTGCGGGCCTCGCTGCAGGACCTGAAGACTGTGGTTCATCGCCAAGACCC  
CCGGGACGGGAGGCAGCCCCCAGGGCTCCTTTGCGGATGGCCAGCCTGCCGAGCGCAGGGCCAGCAATGACCAGC  
GTCCCCAGGAGGTCCCAGCAGAGGCTCTGGCCCCGGCCCCAGTGGAAAGTCCAGCTCCAGCCCCCTGCAGCAGCCT  
CAGCCTCAGGCCAGCGAAGACTCCGGCCCCAGCAGAGGCCTCAACTTCAGCTTTGGTCCCAGAGGAGACGCCAG  
TGGAAGCTCCAGCCCCACCCCCAGCCGAGGCCCCCTGCCAGTACCCGAGTGAGCACCTCATCCAGGCCACCTCGG  
AGGAGAATCAGATCCCCTCGCACTTGCTGCTGCTGCCCCGTGCTCCGGCACGTGCGCCAGCCTGCGGGGCGAGCGCCA  
TCATCGAGCTCTTCCACAGCAGCATTGCTGAGGTTGAAAACGAGGAGCTGAGGCACCTCATGTGGTCTCGGTGG  
TGTTCTACCAGACCCAGGGCTGGAGGTGACTGCCTGCGTGCTGCTCTCCACCAAGGCTGTGTACTTTGTGCTCC

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**FIGURE 1165B**

ACGACGGCCTCCGCCGCTACTTCTCAGAGCCACTGCAGGATTTCTGGCATCAGAAAAACACCGACTACAACAACA  
GCCCTTTCCACATCTCCAGTGCTTCGTGCTAAAGCTTAGTGACCTGCAGTCAGTCAATGTGGGGCTTTTCGACC  
AGCATTTCCGGCTGACGGGTTCACCCCGATGCAGGTGGTCACGTGCTTGACGCGGGACAGCTACCTGACGCACT  
GCTTCCTCCAGCACCTCATGGTCGTGCTGCTCTCTGGAACGCACGCCCTCGCCGGAGCCTGTTGACAAGGACT  
TCTACTCCGAGTTTGGGAACAAGACCACAGGGAAGATGGAGAACTACGAGCTGATCCACTCTAGTCGCGTCAAGT  
TTACCTACCCAGTGAGGAGGAGATTGGGGACCTGACGTTCACTGTGGCCCAAAGATGGCTGAGCCAGAGAAGG  
CCCCAGCCCTCAGCATCCTGCTGTACGTGCAGGCCTTCAGGTGGGCATGCCACCCCTGGGTGCTGCAGGGGCC  
CCCTGCGCCCCAAGACACTCCTGCTCACCAGCTCCGAGATCTTCCTCCTGGATGAGGACTGTGTCCACTACCCAC  
TGCCCCGAGTTTGCCAAAGAGCCGCCGCAGAGAGACAGGTACCGGCTGGACGATGGCCGCCCGCTCCGGGACCTGG  
ACCGAGTGCTCATGGGCTACCAGACCTACCCGCAGGCCCTCACCTCGTCTTCGATGACGTGCAAGGTCATGACC  
TCATGGGCAGTGTCACCCCTGGACCACCTTGGGGAGGTGCCAGGTGGCCCGGCTAGAGCCAGCCAGGGCCGTGAAG  
TCCAGTGGCAGGTGTTTGTCCCCAGTGCTGAGAGCAGAGAGAAGCTCATCTCGCTGTTGGCTCGCCAGTGGGAGG  
CCCTGTGTGGCCGTGAGCTGCCTGTGAGCTCACCGGCTAGCCCAGGCCACAGCCAGCCTGTCGTGTCCAGCCTG  
ACGCCTACTGGGGCAGGGCAGCAGGCTTTTGTGTTCTCTAAAAATGTTTTATCCTCCCTTTGGTACCTTAATTTG  
ACTGTCCTCGCAGAGAATGTGAACATGTGTGTGTGTGTTAATTCTTTCTCATGTTGGGAGTGAGAATGCCGG  
GCCCTCAGGGCTGTGGGTGTGCTGTCAGCCTCCACAGGTGGTACAGCCGTGCACACCAGTGTCGTGTCTGCTG  
TTGTGGGACCGTTGTTAACACGTGACACTGTGGGTCTGACTTTCTCTTCTACACGTCCTTTCTGAAGTGTCGAG  
TCCAGTCCTTTGTTGCTGTTGCTGTTGCTGTTGCTGTTGCTGTTGGCATCTTGCTGCTAATCCTGAGGCTGGTAG  
CAGAATGCACATTGGAAGCTCCCACCCCATATTGTTCTTCAAAGTGGAGGTCTCCCCTGATCCAGACAAGTGGGA  
GAGCCCGTGGGGGCAGGGGACCTGGAGCTGCCAGCACCAAGCGTGATTCTGCTGCCTGTATTCTCTATTCCAAT  
AAAGCAGAGTTTGACACCGTCTTAAAAA

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**FIGURE 1166**

MATARTFGPEREAEPAKEARVVGSELVDITYTVYIIQVTDGSHEWTVKHRYSDFHDLHEKLVAERKIDKNLLPPKK  
IIGKNSRSLVEKREKDLVYLQKLLAAGVTPRVLAHFLHFHFEINGITAALAEELFEKGEQLLGAGEVFAIG  
PLQLYAVTEQLQQGKPTCASGDAKTDLGHILDFTCRLKYLKVSGETGPFPGTSNIQEQLLPFDLSIFKSLHQVEIS  
HCDAKHIRGLVASKPTLATLSVRFSAISMKEVLVPEASEFDEWEPEGTTLLEGPVTAVIPTWQALTTLDSLHNSIS  
EIDESVKLIPKIEFLDLSHNGLLVVDNLQHLNVLVHLDLSYNKLSLEGLHTKLGNIKTLNLAGNLLLESLSGLHK  
LYSLVNLDLRDNRIEQMEEVRSIGSLPCLEHVSLNNPLSIIPDYRTKVLAQFGERASEVCLDDTVTTEKELDTV  
EVLKAIQKAKEVKSKLSNPEKKGEDSRLSAAPCIRPSSSPPTVAPASASLPQPILSNQGIMFVQEEALASSLSS  
TDSLTPHEHQPIAQGCSDSLESIPAGQAASDDLDRDVPAGVGASPEHAEPVQVPGSGQIIFLPFTCIGYTATNQ  
DFIQRLSTLIRQAIERQLPAWIEAANQREEGQGEQEEEEDEEEEEEDVAENRYFEMGPPDVEEEEGGGQGEES  
EEEEDEEAEEERLALWALGADEDFLEHIRILKVLWCFLIHVQGSIRQFAACLVLTDFGIADVFEIPHQESRGSS  
QHILSSLRVFVCFPHGDLTEFGFLMPELCLVLKVRHSENTLFIISDAANLHEFHADLRSCFAPQHMAMLCSPILY  
GSHTSLQEFLRQLLTFYKVAGGCQERSQGCFFVYLVYSDKRMVQTAAGDYSGNIEWASCTLCASVRRSCCAPSEA  
VKSAAIPYWLLLTPQHNLVNIKADFNPMFNRGTHNCRNRNSFKLSRVPLSTVLLDPTRSCQPRGAFADGHVLELL  
VGYRFVTAIFVLPHEKFHFLRVYNQLRASLQDLKTVVIAKTPGTGGSPQGSFADGQPAERRASNDQRPQEVPAEA  
LAPAPVEVPAPAPAAAASASGPAKTPAPAEASTSALVPEETPVEAPAPPPAEAPAQYPSEHLIQATSEENQIPSHL  
PACPSLRHVASLRGSAIIELFHSSIAEVENEEELRHLMWSSVVFYQTPGLEVTACVLLSTKAVYFVLHDGLRRYFS  
EPLQDFWHQKNTDYNNSPFHISQCFVLKLSDLQSVNVGLFDQHFRLTGSTPMQVVTCLTRDSYLTHCFLQHLMVV  
LSSLERTPSPEPVDKDFYSEFGNKTGKMEYELIHSSRVKFTYPSSEEEIGDLTFTVAQKMAEPEKAPALSILLY  
VQAFQVGMPPPGCCRGPLRPKTLTLLTSSEIFLLDEDCVHYPLPEFAKEPPQRDRYRLDDGRRVRDLDRVLMGYQT  
YPQALTIVFDDVQGHDLMGSVTLDFHGEVPGGPASQGREVQWQVFPVSAESREKLISLLARQWEALCGREL PV  
ELTG

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**FIGURE 1167**

GGCACGAGGAGCGTTTCGTTTGGACTTCTCGACTTGAGTGCCCGCCTCCTTCGCCGCCGCCTCTGCAGTCCTCAG  
CGCAGTTATGCCCAGTTCTTCCCGCTGTGGGGACACGACCACGGAGGAATCCTTGCTTCAGGGACTCGGGACCCT  
GCTGGACCCCTTCCCTCGGGTTTAGGGGATGTGGGGACCAGGAGAAAGTCAGGATCCCTAAGAGTCTTCCCTGCCT  
GGATGGATGAGTGGCTTCTTCTCCACCTAGATTCTTTCCACAGGAGCCAGCATACTTCCCTGAACATGGAGAGTGT  
TGTTCCGCCGCTGCCCATTTCTATCCCGAGTCCCCCAGGCCTTTCTGCAGAAAGCAGGCAAATCTCTGTTGTTCTA  
TGCCCAAACTGCCCAAGATGATGGAAGTTGGGGCCAAGCCAGCCCCCTCGGGCATTGTCCACTGCAGCAGTACA  
CTACCAACAGATCAAAGAAACCCCTCCGGCCAGTGAGAAAGACAAAAGCTGCTAAGGCCAAGGTCCAACAGACTCC  
TGATGGATCCCAGCAGAGTCCAGATGGCACACAGCTTCCGCTCTGGACACCCCTTGCCTGCCACAAGCCAGGGCAC  
TGCAAGCAAATGCCCTTTCCTGGCAGCACAGATGAATCAGAGAGGCAGCAGTGTCTTCTGCAAAGCCAGTCTTGA  
GCTTCAGGAGGATGTGCAGGAAATGAATGCCGTGAGGAAAGAGGTTGCTGAAACCTCAGCAGGCCCCAGTGTGGT  
TAGTGTGAAAACCGATGGAGGGGATCCAGTGGACTGCTGAAGAACTTCCAGGACATTATGCAAAGCAAAGACC  
AGAAAGAGTGTCTCATCTTCTTCAAGATAACTTGCCAAAATCTGTTTCCACTTTTCAGTATGATCGTTTCTTTGA  
GAAAAAAATTGATGAGAAAAAGAATGACCACACCTATCGAGTTTTTAAAGCTGTGAACCGGCAGCACACATCTT  
CCCCATGGCAGATGACTATTGAGACTCCCTCATCACCAAAAGCAAGTGTGAGTCTGGTGCAGTAATGACTACCT  
AGGAATGAGTCGCCACCCACGGGTGTGTGGGGCAGTTATGGACACTTTGAAACAACATGGTGTCTGGGGCAGGTGG  
TACTAGAAATATTTCTGGAAGTAGTAAATTCCATGTGGACTTAGAGCGGGAGCTGGCAGACCTCCATGGGAAAGA  
TGCCGCACTCTTGTTCCTCGTGCTTTGTGGCCAATGACTCAACCTCTTCACCCTGGCTAAGATGATGCCAGG  
CTGTGAGATTTACTCTGATTCTGGGAACCATGCCTCCATGATCCAAGGGATTGAAACAGCCGAGTGCCAAAGTA  
CATCTTCCGCCACAATGATGTGAGCCACCTCAGAGAACTGCTGCAAAGATCTGACCCCTCAGTCCCCAAGATTGT  
GGCATTGAAACTGTCCATTCAATGGATGGGGCGGTGTGCCCACTGGAAGAGCTGTGTGATGTGGCCCATGAGTT  
TGGAGCAATCACCTTCGTGGATGAGGTCCACGCAGTGGGGCTTTATGGGGCTCGAGGCGGAGGGATTGGGGATCG  
GGATGGAGTCATGCCAAAATGGACATCATTTCTGGAACACTTGGCAAAGCCTTTGGTTGTGTTGGAGGGTACAT  
CGCCAGCACGAGTTCTCTGATTGACACCGTACGGTCTATGCTGCTGGCTTCATCTTACCACCTCTCTGCCACC  
CATGCTGCTGGCTGGAGCCCTGGAGTCTGTGCGGATCCTGAAGAGCGCTGAGGGACGGGTGCTTCGCCGCCAGCA  
CCAGCGCAACGTCAAACATGAGACAGATGCTAATGGATGCCGGCCTCCCTGTTGTCCACTGCCCCAGCCACAT  
CATCCCTGTGCGGGTTGCAGATGCTGCTAAAAACACAGAAGTCTGTGATGAACTAATGAGCAGACATAACATCTA  
CGTGCAAGCAATCAATTACCCTACGGTGCCCCGGGGAGAAAGAGCTCCTACGGATTGCCCCCACCCTCACCACAC  
ACCCAGATGATGAACTACTTCCCTTGAGAATCTGCTAGTCACATGGAAGCAAGTGGGGCTGGAAGTGAAGCCTCA  
TTCTCAGCTGAGTGCAACTTCTGCAGGAGGCCACTGCATTTTGAAGTGTGAGTGAAAGAGAGAAGTCTTATTT  
CTCAGGCTTGAGCAAGTTGGTATCTGCTCAGGCCTGAGCATGACCTCAATTATTTCACTTAACCCAGGCCATTA  
TCATATCCAGATGGTCTTCAGAGTTGTCTTTATATGTGAATTAAGTTATATTAAATTTTAATCTATAGTAAAAAC  
ATAGTCCTGGAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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**FIGURE 1168**

MESVVRRCPFSLSRVPQAFLOKAGKSLLFYAQNCPKMMEVGAKPAPRALSTAAVHYQQIKETPPASEKDKTAKAKV  
QQTPDGSQQSPDGTQLPSGHPLPATSQGTASKCPFLAAQMNQRGSSVFCKASLELQEDVQEMNAVRKEVAETSAG  
PSVVSVKTDGGDP SGLLNKFQDIMQKQRPERSHLLQDNLPKSVSTFQYDRFFEKKIDEKKNDHTYRVFKTVNRR  
AHIFPMADDYSDSLITKKQVSVWCSDYLGMSRHRVCGAVMDTLKQHGAGAGGTRNISGTSKFHVDLERELADL  
HGKDAALLFSSCFVANDSTLFTLAKMMPGCEIYSDSGNHASMIQGIRNSRVPKYIFRHNDVSHLRELLQRSDPSV  
PKIVAFETVHSMDGAVCPLEELCDVAHEFGAITFVDEVHAVGLYGARGGGIGDRDGVMPKMDIISGTLGKAFCV  
GGYIASTSSLIDTVRSYAAGFIFTTSLPPMLLAGALESVRILKSAEGRVLRQHQNRVCLMRQMLMDAGLPVVHC  
PSHIIPVRVADAANKTEVCDELMSRHNIYVQAINYPTVPRGEELLRIAPTPHHTPQMMNYFLENLLVTWKQVGLE  
LKP HSSAECNFCRRPLHFEVMSEREKSYFSGLSKLVSAQA

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**FIGURE 1169**

ATGCCCTACCAATATCCATTGCTGACCCCGGAGCAGAAGGAGCTGTCTGACATGACTCATCGCATCGTAGCTCTG  
GGCAAGGGCATCCCGGCTGCAGATGAGTCCACTGGGAGCACTGCCAAGTGGCTGCAGTCCATTGGCACCGAGAAT  
ACCGAGGAGAACCGGTGCTTCTACCGCCAGCTGTGGCTGACAGCTGACAACCGCGTGAACCCCTGCATCAAGGGT  
GTCATCCTCTTCCATGAGACGCTGTACCAAAGGCGGATGATGGGCGTCCCTTCCCCCAAGTTATCAAATCCAAG  
GGCAATGTTGTGAGCATCAAGTGTGTCAATGTCCTGGCCCACTATGCCAGCATCTGCCAGCAGAATGGCATTGTG  
CTCTTCTACTGCCAGTATGTAACCGAGAAGGTGTGGCTGCTCTACAAGGCTCTGAGTGACCATGACATCTACCTG  
GAAGGCACCTTGCTGAAGTCCAATATGGTCACCCCAGGCCATGCCTGCATCCAGAAGTTTTCTCATGAGGAGATT  
GCCATGGCAACTGTCACAAGCACTACACTCTGGGGAATAAGCGGCCTAGAAGGATCACAACTGGGCCAGAACAGG  
GCCCACCCAGACTCATCACTGAGGCAGAGCAAGGAAGTGTCCATCAACCTCAATGCCATTAACAAGTGCCCCCTC  
CTGAAGCCCTGGGGCCTGACCTTCTCATATAGCTGA

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**FIGURE 1170**

TTCCGGCGTTGTTGACCCTATTTCCCGTGCTGCACCGCAGCCCCTTTCTCTTCCGGTTCTAGGCGCTTCGGGAGC  
CGCGGCTTATGGTGCAGACATGGCCAAGTCCAAGAACCACACCACACACAACCAGTCCCGAAAATGGCACAGAAA  
TGGTATCAAGAAACCCCGATCACAAAGATACGAATCTCTTAAGGGGGTGGACCCCAAGTTCCTGAGGAACATGCG  
CTTTGCCAAGAAGCACAAACAAAAAGGGCCTAAAGAAGATGCAGGCCAACAATGCCAAGGCCATGAGTGCACGTGC  
CGAGGCTATCAAGGCCCTCGTAAAGCCCAAGGAGGTAAAGCCCAAGATCCCAAAGGGTGTGAGCCGCAAGCTCGA  
TCGACTTGCTTACATTGCCCCACCCCAAGCTTGGGAAGCGTGCTCGTGCCCGTATTGCCAAGGGGCTCAGGCTGTG  
CCGGCCAAAGGCCAAGGCCAAGGCCAAGGCCAAGGATCAAACCAAGGCCCAGGCTGCAGCCCCAGCTTCAGTTCC  
AGCTCAGGCTCCCAAACGTACCCAGGCCCTACAAAGGCTTCAGAGTAGATATCTCTGCCAACATGAGGACAGAA  
GGACTGGTGCAGCCCCCACCCTCGCCCTGGGCTACCATCTGCATGGGGCTGGGGTCCTCCTGTGCTATTTGTA  
CAAATAAACCTGAGGCAGGAAA

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**FIGURE 1171**

MAKSKNHTTHNQSRKWHRNGIKKPRSQRYESLKGVDPKFLRNMRFAKKHNKKGLKKMQANNAKAMSARAEAIKAL  
VKPKEVKPKIPKGVSRKLDRLAYIAHPKLGKRARARIAKGLRLCRPKAKAKAKAKDQTKAQAAAPASVPAQAPKR  
TQAPTKASE

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**FIGURE 1172**

GGGCGCTGAGAGGCGAGCGTGAGCCCAGCGACAGGAGAGTGAGCTCACCACGCGCAGCGCCATGACCAGCAAGGG  
TCCCGAGGAGGAGCACCCATCGGTGACGCTCTTCCGCCAGTACCTGCGTATCCGCACTGTCCAGCCCAAGCCTGA  
CTATGGAGCTGCTGTGGCTTTCTTTGAGGAGACAGCCCGCCAGCTGGGCCTGGGCTGTCAGAAAAGTAGAGGTGGC  
ACCTGGCTATGTGGTGACCGTGTGACCTGGCCAGGCACCAACCCTACACTCTCCTCCATCTTGCTCAACTCCCA  
CACGGATGTGGTGCCCTGTCTTCAAGGAACATTGGAGTCACGACCCCTTTGAGGCCTTCAAGGATTCTGAGGGCTA  
CATCTATGCCAGGGGTGCCCAGGACATGAAGTGCGTCAGCATCCAGTACCTGGAAGCTGTGAGGAGGCTGAAGGT  
GGAGGGCCACCGGTTCCCCAGAACCATCCACATGACCTTTGTGCCTGATGAGGAGGTTGGGGGTCACCAAGGCAT  
GGAGCTGTTTCGTGCAGCGGCCTGAGTTCCACGCCCTGAGGGCAGGCTTTGCCCTGGATGAGGGCATAGCCAATCC  
CACTGATGCCTTCACTGTCTTTTATAGTGAGCGGAGTCCCTGGTGGGTGCGGGTTACCAGCACTGGGAGGCCAGG  
CCATGCCTCACGCTTCATGGAGGACACAGCAGCAGAGAAGCTGCACAAGGTTGTAAACTCCATCCTGGCATTCCG  
GGAGAAGGAATGGCAGAGGCTGCAGTCAAACCCCCACCTGAAAGAGGGGTCCGTGACCTCCGTGAACCTGACTAA  
GCTAGAGGGTGGCGTGGCCTATAACGTGATACCTGCCACCATGAGCGCCAGCTTTGACTTCCGTGTGGCACCGBA  
TGTGGACTTCAAGGCTTTTGAGGAGCAGCTGCAGAGCTGGTGCCAGGCAGCTGGCGAGGGGGTCACCCTAGAGTT  
TGCTCAGAAGTGGATGCACCCCCAAGTGACACCTACTGATGACTCAAACCCTTGGTGGGCAGCTTTTAGCCGGGT  
CTGCAAGGATATGAACCTCACTCTGGAGCCTGAGATCATGCCTGCTGCCACTGACAACCGCTATATCCGCGCGGT  
GGGGTCCCAGCTCTAGGCTTCTCACCATGAACCGCACACCTGTGCTGCTGCACGACCACGATGAACGGCTGCA  
TGAGGCTGTGTTCCCTCCGTGGGGTGGACATATATACACGCCTGCTGCCTGCCCTTGCCAGTGTGCCTGCCCTGCC  
CAGTGACAGCTGAGGCCCTGGAACCTCTAAACCTTTGCCCTGGGGCTTCCATCCCAACCAGTGCCAAGGACCTCC  
TCTTCCCCCTTCCAAATAATAAAGTCTATGGACAGGGCTGTCTCTGAAGTACTAACACAAGGACA

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**FIGURE 1173**

MTSKGP EEEHPSVTLFRQYLRI RTVQPKPDYGA AVAF EETARQLGLGCQKVEVAPGYVVTVLTWPGTNPTLSSI  
LLNSHTDVVPVFKEHWSHDPFEAFKDSEGYIYARGAQDMKCVSIQYLEAVRRLKVEGHRFPRTIHMTFVPDEEVG  
GHQGMELFVQRPEFHALRAGFALDEGIANPTDAFTVFYSESPWWVRVTSTGRPGHASRFMEDTAAEKLHKVVNS  
ILAFREKEWQRLQSNPHLKEGSVTSVNLTKLEGGVAYNVIPATMSASFDFRVAPDVDFKAFEEQLQSWCQAAGEG  
VTLEFAQKWMHPQVTPTDSDNPWWAAFSRVCKDMNLTLEPEIMPAATDNRYIRAVGVPALGFSPMNRTPVLLHDH  
DERLHEAVFLRGVDIYTRLLPALASVPALPSDS

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**FIGURE 1174**

CGCCAGCACGCGCCTGCTTCCCGTCTGCGCGAGTCCACGCAGCTCCCCAGATCAAGAAGCTGAGGCCCCAGGTTA  
CACACTAAAGTAAATGGCAGAGGCAGAAATAACACCTATGTCTCCTGACCCCAAGGCATGTTCTTAAAGTTCTG  
GAAACCTCCTGGAGGCTTCCTTGCTGCTCCTCTGGGACTGCCACCCTGGGCAGGGTGTTCTGTGGCCCCCTCATCA  
TCGTGGTTTTGAACCACAGGCCCTTCACCAGCACAGCAGCAGCAGGCATGCGCAGCAAGCGTGGAGCAGCGCGAGG  
GCACCATCCAGGTGCAGGGCCAGGCCCTCTTCTTCCGAGAGGCCCTGCCCGGCAGTGGGCAGGCTCGCTTCTCTG  
TACTGCTGCTGCATGGTATTCTGCTTCTCCTCCGAGACCTGGCAGAACCTGGGTACACTGCACAGGCTGGCCCAGG  
CTGGCTACCGGGCTGTGGCCATTGACCTGCCAGGTCTGGGGCACTCCAAGGAAGCAGCAGCCCCCTGCCCTATTG  
GGGAGCTGGCCCCCTGGCAGCTTCCTGGCGGCTGTGGTGGATGCCTTGGAGCTGGGCCCCCGGTTGTGATCAGTC  
CATCACTGAGTGGCATGTACTCCCTGCCCTTCCTCACGGCCCCCTGGCTCCCAGCTCCCGGGCTTTGTGCCAGTGG  
CCCCATCTGCACTGACAAAATCAATGCTGCCAACTATGCCAGTGTGAAGACTCCAGCTCTGATTGTATATGGAG  
ACCAGGACCCCATGGGTGAGACAGCTTTGAGCACCTGAAGCAGCTGCCCAACCACCGGGTGCTGATCATGAAGG  
GGGCGGGGCACCCCTGTTACCTGGACAAACCAGAGGAGTGGCATAACAGGGCTGCTGGACTTCCTGCAGGGGCTCC  
AGTGAAGCCCAGCACTGCTGCAGGGGGTGGGCTGCCTGCCTGCTCTGAGCTCTCTCTTGCACGCTCTCTCTTCTC  
TCCCAGGCTCTGGCTCATGCACATGCAACAGGTGCGTCTGTCTATATGCTCTGGGTTCCTTGTCTTTTGTGGTCTGT  
TTGTCTTTTCTACCTCTTTCTCTTGCAGTGATAGACTGAGGGGGTAAAATCAAGAGAAAAAACTCTCAGGAATCA  
AGGAACATAATCCTGTGGAGGGTAATCCATTACATGAGCTTCTCCTGTTCTTCCACTTTCTCCTGCCTGGCTTTAC  
TCCTTCCCCTGCTCTGCCAGCCTTTCCCTCCCACCCACTCCTCCTTCTGCAAATGCCCTGAAGGCCAGCCCTTA  
CCCCAACACCCACTTCCCCACCTCCTTAGGCCCCAGATACATACATGCCACATGCACGCTTACATGTTTAGAGC  
CATCCTTGTTTTCCAAATATGACCCTTCGCTTGAGGGCAACTGCATAGGTACATCTAACTCTGGACTGGCATGCAC  
ATTGTCATGTGCAGCTTTGCATATACACACATGCATACATGAGCCTCCACACAAGCACTTGCACACATGTGGACT  
CCTAACCATGCTAACCTCACTGGCTGGGAAGGTGGGGACCCCATGGGCCAGCCCTTGCAGGAGGGCCCTTTTGCAA  
GGCTTAGGGTGTGGCCAGCCCTGAAAGCTACTTGGACACAGGTTTCAGCTGGCCCCAGCCCAGAAGTGACCCCCA  
GAAAGGGAGGGCCACCGCTTTGCCCCCTGCTTTTACCCTTCCTTCTGGGTGCTCTACACCTCAGGTTACCAGGCC  
TGAGGCATCTCAGCCAAGCTTGTTTCTGCTCTGAGGCTTGTGGGTGGGAGCCAGAGTGGAGGTCGGTGAAATA  
AAGTGATGCAATTAGAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1175**

MAASVEQREGTIQVQGQALFFREALPGSGQARFSVLLHGGIRFSSETWQNLGTLHRLAQAGYRAVAIDLPGLGHS  
KEAAAPAPIGELAPGSFLAAVDALELGPPVVISPSLSGMYSLPFLTAPGSQLPGFVPVAPICTDKINAANYASV  
KTPALIVYGDQDPMGQTSFEHLKQLPNHRVLIMKGAGHPCYLDKPEEWHTGLLDLFLQGLQ



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**FIGURE 1176**

ATAACCCCTCATTGTTTCGCAGCTGATGTCACTCGCAGTTGTGAGCGGCCGCCTCTCCCGGGGACAATGTGGGACT  
GAGCGGCCAGCCGCCGTGCCGCCGCCGCCGCCGAGGACAGCCCCAGCGAGAGCCGGCCAGGTTGCAGCGC  
GGACACACTCGCAGGTCGCTGTGGCCCCAGCCTCGCCTGACAGAAATGAGCGGCTCGGACGGGGGACTGGAGGAGG  
AGCCAGAGCTCAGCATCACCTCACGCTGCGGATGCTGATGCACGGGAAGGAAGTGGGCAGCATCATCGGGAAGA  
AGGGCGAGACTGTAAAGCGAATCCGGGAGCAGAGCAGTGCCCGGATCACCATCTCCGAGGGCTCCTGCCCTGAAC  
GCATCACCACCATCACCGGGTCTACAGCAGCTGTCTTCCATGCAGTCTCCATGATTGCTTTCAAACCTGGATGAGG  
ACCTTTGTGCTGCTCCTGCAAATGTTGGAAATGTCTCCAGGCCTCCAGTGACCCTGCGCCTTGTCATCCCTGCCA  
GTCAGTGTGGCTCACTGATTGGGAAGGCTGGCACCAAGATCAAGGAGATCCGAGAGACTACGGGTGCCCAGGTAC  
AGGTGGCAGGGGACCTGCTCCCCAACTCCACAGAGCGAGCTGTTACGGTATCTGGGGTGCCTGATGCCATCATCC  
TGTGTGTGCGCCAGATCTGCGCTGTTATCCTGGAGTCCCCACCCAAAGGAGCCACTATCCCTACCATCCGAGCC  
TCTCCCTAGGTACTGTTCTTCTCTCTGCCAACAGGGCTTCTCTGTCCAGGGTCAGTATGGGGCTGTGACCCAG  
CTGAGGTCACCAAGCTCCAGCAGCTCTCAAGCCATGCGGTCCCCCTTGCCACACCCAGCGTGGTGCCAGGACTGG  
ATCCCGGCACACAGACCAGCTCACAGGAGTTCTTGGTTCCCAACGATTTGATTGGCTGTGTGATCGGGCGCCAGG  
GCAGCAAGATCAGCGAGATCCGGCAGATGTCAAGGGCACATATCAAGATCGGGAACCAAGCAGAGGGCGCTGGGG  
AGCGGCATGTACCATCACTGGCTCTCCGGTCTCCATCGCCCTGGGCCAGTACCTCATCACTGCCTGTCTAGAGA  
CGGCCAAGTCTACCTCTGGGGGGACGCCCAGCTCGGCCCCCGCAGACCTGCCTGCCCCCTTCTCGCCACCCCTGA  
CGGCCCTGCCACAGCTCCCCCTGGCCTGCTGGGCACACCCATATGCCATCTCCCTCTCCAACCTTCATCGGCCTCA  
AGCCCATGCCCTTCTTGGCTTTTACCACCTGCTTCCCCAGGGCCGCCGCCGGGCTTGGCGGCCTACACTGCCAAGA  
TGGCAGCAGCTAATGGGAGCAAGAAGGCTGAGCGGCAGAAATTCTCCCCCTACTAGAGGCCAGCTGAGGTACAGGC  
AGGGGCAGGCAGGACCACCAGCAGGGGGCTGCCTCTGCACCCTACCCGCCCAAGGAGACTCCACCCTGGGGTCCC  
AAACGCCGCTAACGCCCAGACGCATGGATGCACCCCTACCCTGCCTCCATCTATGGGAGTTCTTTCTCTCAGAG  
TGGGGGCAGTTTCTGGCCCAGGGTCTGAGCTGCGGCAGCCCCAGGGCAGGGGGCCCTACCTCCTCAGCTCTGTG  
CTTGGATACAGGGAGCAGCCAGGAGACTCCCTAGTGCCCCCACCATGGCGGGTGTCACTCACGCACTCCCCATCC  
CTTAGGGCTTCCTGGCCTACTGCATCCTTGTGGGAGTCAGGGAGGAGGGCCCGTTGGGTAGCTGGGGCCAGGCTT  
CTCTCCCCACCACCTGCAGATTTCTTGCTGCTTCCACTGATACCCTTTTGAAGTGAATGAAGTGGCTGGGCTTGT  
CAGGGGGCACCCCAAAGAGGGGGCACTGCCAGGTAGCTGGGGGAGTGGCATGGGGCAGGGGGCCAGTTCTCAGCA  
GCAGACACTCTGTACAGTTTTTTCAATCCCTGTTTTTGAATAAATATTCTCAGCGACCAAAAAAAAAAAAAAAAAA  
AAAAAAA

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**FIGURE 1177**

MSGSDGGLEEEPELSITLTLRMLMHGKEVGSIIIGKKGETVKRIREQSSARITISEGSCPERITTITGSTAAVFHA  
VSMIAFKLDEDLCAAPANGGNVSRPPVTLRLVIPASQCGSLIGKAGTKIKEIRETTGAQVQVAGDLLPNSTERAV  
TVSGVPDAIILCVRQICAVILESPPKGATIPYHPSLSLGTVLLSANQGFSVQGQYGAVTPAEVTKLQQLSSHAVP  
FATPSVVPGLDPGTQTSSQEFLVPNDLIGCVIGRQGSKISEIRQMSGAHIKIGNQAEGAGERHVTITGSPVSIAL  
AQYLITACLETAKSTSGGTPSSAPADLPAPFSPPLTALPTAPPGLLGTPYAISSLNFIGLKPMPPFLALPPASPGP  
PPGLAAYTAKMAAANGSKKAERQKFSPY

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**FIGURE 1178**

CCTCTGGAGTCCCTGTGGCAGAACTCAAATGGAAGGAGGAGCAGCTGCACCCAGGGGAGCAGGGTGTACCTCCG  
TTGGATAGAGCCGGCCAGGTTGCAGCGCGGACACACTCGCAGGTCGCTGTGGCCCCAGCCTCGCCTGACAGAATG

AGCGGCTCGGACGGGGGACTGGAGGAGGAGCCAGAGCTCAGCATCACCTCACGCTGCGGATGCTGATGCACGGG  
AAGGAAGTGGGCAGCATCATCGGGAAGAAGGGCGAGACTGTAAAGCGAATCCGGGAGCAGAGCAGTGCCCGGATC  
ACCATCTCCGAGGGCTCCTGCCCTGAACGCATCACCACCATCACCGGGTCTACAGCAGCTGTCTTCCATGCAGTC  
TCCATGATTGCTTTCAAACCTGGATGAGGACCTTTGTGCTGCTCCTGCAAATGGTGGAATGTCTCCAGGCCTCCA  
GTGACCCTGCGCCTTGTCATCCCTGCCAGTCAGTGTGGCTCACTGATTGGGAAGGCTGGCACCAAGATCAAGGAG  
ATCCGAGAGACTACGGGTGCCAGGTACAGGTGGCAGGGGACCTGCTCCCCAACTCCACAGAGCGAGCTGTTACG  
GTATCTGGGGTGCCTGATGCCATCATCCTGTGTGTGCGCCAGATCTGCGCTGTTATCCTGGAGTCCCCACCCAAA  
GGAGCCACTATCCCTACCATCCGAGCCTCTCCCTAGGTACTGTTCTTCTCTCTGCCAACCAGGGCTTCTCTGTC  
CAGGGTCAGTATGGGGCTGTGACCCACAGTGAAGTACCAAGCTCCAGCAGCTCTCAAGCCATGCGGTCCCCTTT  
GCCACACCCAGCGTGGTGCCAGGACTGGATCCCGGCACACAGACCAGCTCACAGGAGTTCTTGGTTCCCAACGAT  
TTGATTGGCTGTGTGATCGGGCGCCAGGGCAGCAAGATCAGCGAGATCCGGCAGATGTCAGGGGACACATATCAAG  
ATCGGGAACCAAGCAGAGGGCGCTGGGGAGCGGCATGTCACCATCACTGGCTCTCCGGTCTCCATCGCCCTGGCC  
CAGTACCTCATCACTGCCTGTCTAGAGACGGCCAAGTCTACCTCTGGGGGACGCCCAGCTCGGCCCCCGCAGAC  
CTGCCTGCCCCCTTCTCGCCACCCCTGACGGCCCTGCCACAGCTCCCCCTGGCCTGCTGGGCACACCCTATGCC  
ATCTCCCTCTCCAACCTTCATCGGCCTCAAGCCCATGCCCTTCTTGGCTTTACCACCTGCTTCCCCAGGGCCGCCG  
CCGGGCTTGGCGGCCTACACTGCCAAGATGGCAGCAGCTAATGGGAGCAAGAAGGCTGAGCGGCAGAAATTCTCC  
CCCTACTGAGGCCAGCTGAGGTACAGGCAGGGGCAGGCAGGACCACCAGCAGGGGGCTGCCTCTGCACCCTACCC  
GCCCCAAGGAGACTCCACCCTGGGGTCCCAAACGCCGCTAACGCCCAGACGCATGGATGCACCCCTACCCTGCCT  
CCATCTATGGGAGTTCTTTCTCTCAGAGTGGGGCAGTTTCTGGCCCAGGGGTCTGAGCTGCGGCAGCCCCAGGG  
CAGGGGGCCCTACCTCCTCAGCTCTGTGCTTGGATACAGGGAGCAGCCAGGAGACTCCCTAGTGCCCCACCATG  
GCGGGTGTCACTCACGCACTCCCCATCCCTTAGGGCTTCCTGGCCTACTGCATCCTTGTGGGAGTCAGGGAGGAG  
GGCCCGTTGGGTAGCTGGGGCCAGGCTTCTCTCCCCACCACCTGCAGATTTCTTGCTGCTTCCACTGATACCCTT  
TTGACTGGAATGAACCTGGCTGGGCTTGTGAGGGGGCACCCCAAAGAGGGGGCACTGCCAGGTAGCTGGGGGAGTG  
GCATGGGGCAGGGGCCAGTTCTCAGCAGCAGACACTCTGTACAGTTTTTTCAATCCCTGTTTTTGAATAAATAT  
TCTCAGCGACCA

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**FIGURE 1179**

MSGSDGGLEEEPELSITLTLRMLMHGKEVGSIIIGKKGETVKRIREQSSARITISEGSCPERITTTITGSTAAVFHA  
VSMIAFKLDEDLCAAPANGGNVSRPPVTLRLVIPASQCGSLIGKAGTKIKEIRETTGAQVQVAGDLLPNSTERAV  
TVSGVPDAIILCVRQICAVILESPPKGATIPYHPSLSLGTVLLSANQGF SVQGQYGAVTPAEVTKLQQLSSHAVP  
FATPSVVPGLDPGTQTSSQEF LVPNDLIGCVIGRQGS KISEIRQMSGAHIKIGNQAEGAGERHVTITGSPVSIAL  
AQYLITACLETAKSTSGGTPSSAPADLPAPFSPPLTALPTAPPGLLGTPTYAISLSNFIGLKPMPPFLALPPASPGP  
PPGLAAYTAKMAAANGSKKAERQKFSPY

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**FIGURE 1180**

ATTTCITTTTAGTGTCTCAGGGTAAGGGAAGGCTAGGTACCTACCATGTATGTGCTTATTGTTTTAATTCTCATC  
ACTCTTTGGAGATGGGAATTTGTATCCCCCTTCTACAGATGGAGAAGCTGAGGCTCAGAGGGTTGAATGGGCTCCC  
CAGGCTTACACAGCTCGTGAGACACACATAAGCACCCCTGGTCAGAGTGATGTGTGGCGCTCAAGGTCCATGCAGT  
CTCTTTCCTCTGGGAGTTTGACTAGCCCAGCTCTGGGGTCCCCATGTAAGGGCAGGGGCAGGGTGGACTGGGCTC  
CTCTCGAACCCCTCTTTGGCTGCCCCAGCGAGAGCCGGCCAGGTTGCAGCGCGGACACACTCGCAGGTGCTGTG  
GCCCCAGCCTCGCCTGACAGAATGAGCGGCTCGGACGGGGGACTGGAGGAGGAGCCAGAGCTCAACATCACCCCTC  
ACGCTGCGGATGCTGATGCACGGGAAGGAAGTGGGCAGCATCATCGGGAAGAAGGGCGAGACTGTAAAGCGAATC  
CGGGAGCAGGTGAGGATGGAGTTTGGGGGAGGAGCCCAGGGCACCTGATGTGGAGGGGAGATCCCTGCCCCACTT  
TCTCTCTGAACCACTCCTTCTGGGCTGACCAGTGAGTCCCCCAGAGGGTGGCAGTTTGTAGCCTTGCCCTCAGGCC  
TGGTGAGTGGGGCAGGCAGACAAGTTCCGGCAAGGGAGCAGGGAAGATGCCCCGCTGCCGGCGCTCATTCTATA  
TCTGCAGAGCAGTGCCCGGATCACCATCTCCGAGGGCTCCTGCCCTGAACGCATCACCACCATCACCGGGTCTAC  
AGCAGCTGTCTTCCATGCAGTCTCCATGATTGCTTTCAAACCTGGATGAGGACCTTTGTGCTGCTCCTGCAAATGG  
TGGAAATGTCTCCAGGCCTCCAGTGACCCTGCGCCTTGTTCATCCCTGCCAGTCAGTGTGGCTCACTGATTGGGAA  
GGCTGGCACCAAGATCAAGGAGATCCGAGAGGTGAGGGGCGAGATATACCACCCACAGGGAATCCGGGGCAAGGG  
AGCAGTTGTAAGAGGGGTGTTGGGCTTATGGCGTCCCTCCCCACCTAGAGAGCTCTGAGCCTGGGCAGCCCTTTTC  
TGGGTTATGGGAGCAGCCAGAAGTGGCCCCCTGTTCTCTGTTTGCAGACTACGGGTGCCAGGTACAGGTGGCAGG  
GGACCTGCTCCCCAACTCCACAGAGCGAGCTGTTACGGTATCTGGGGTGCTGATGCCATCATCCTGTGTGTGCG  
CCAGATCTGCGCTGTTATCCTGGAGTCCCCACCCAAAGGAGCCACTATCCCTACCATCCGAGCCTCTCCCTAGG  
TACTGTTCTTCTCTCTGCCAACAGGGCTTCTCTGTCCAGGGTCACTATGGGGCTGTGACCCAGCTGAGGTCAC  
CAAGCTCCAGCAGCTCTCAAGCCATGCGGTCCCCTTTGCCACACCAGCGTGGTGCCAGGACTGGATCCCGGCAC  
ACAGACCAGCTCACAGGAGTTCTTGGTTCCCAACGATTTGATTGGCTGTGTGATCGGGCGCCAGGGCAGCAAGAT  
CAGCGAGATCCGGCAGATGTCAGGGGCACATATCAAGATCGGGAACCAAGCAGAGGGCGCTGGGGAGCGGCATGT  
CACCATCACTGGCTCTCCGGTCTCCATCGCCCTGGCCCAGTACCTCATCACTGCCTGTCTAGAGACGGCCAAGTC  
TACCTCTGGGGGACGCCAGCTCGGCCCCCGCAGACCTGCCTGCCCCCTTCTCGCCACCCCTGACGGCCCTGCC  
CACAGCTCCCCCTGGCCTGCTGGGCACACCCTATGCCATCTCCCTCTCCAACCTTCATCGGCCTCAAGCCCATGCC  
CTTCTTGGCTTTACCACCTGCTTCCCCAGGGCCGCCGCGGGCTTGGCGGCCCTACACTGCCAAGATGGCAGCAGC  
TAATGGGAGCAAGAAGGCTGAGCGGCAGAAATTCTCCCCCTACTGAGGCCAGCTGAGGTACAGGCAGGGGCAGGC  
AGGACCACCAGCAGGGGGCTGCCTCTGCACCCTACCCGCCCAAGGAGACTCCACCCTGGGGTCCCAAACGCCGCT  
AACGCCCAGACGCATGGATGCACCCCTACCCTGCCTCCATCTATGGGAGTTCTTTCTCTCAGAGTGGGGCAGT  
TTCTGGCCCAGGGTCTGAGCTGCGGCAGCCCCAGGGCAGGGGGCCCTACCTCCTCAGCTCTGTGCTTGGATACA  
GGGAGCAGCCAGGAGACTCCCTAGTGCCCCCACCATGGCGGGTGTCACTCACGCACTCCCCATCCCTTAGGGCTT  
CCTGGCCTACTGCATCCTTGTGGGAGTCAGGGAGGAGGGCCCGTTGGGTAGCTGGGGCCAGGCTTCTCTCCCCAC  
CACCTGCAGATTTCTTGCTGCTTCCACTGATACCCTTTTGAAGTGAATGAAGTGGCTGGGCTTGTGAGGGGGCAC  
CCCAAAGAGGGGGCACTGCCAGGTAGCTGGGGGAGTGGCATGGGGCAGGGGCCAGTTCTCAGCAGCAGACACTC  
TGTACAGTTTTTTCAATCCCTGTTTTTTGAATAAATATTCTCAGCGACCAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1181**

MPRCPALILYLQSSARITISEGSCPERITTTITGSTAAVFHAVSMIAFKLDEDLCAAPANGGNVSRPPVTLRLVIP  
ASQCGSLIGKAGTKIKEIREVRGEIYHPQGIRGKGAVVRGVLGLWRPPHLESSEPGQPFSGLWEQPEVAPVLCLO  
TTGAQVQVAGDLLPNSTERAVTVSGVPDAIILCVRQICAVILESPPKGATIPYHPSLSLGTVLLSANQGFVQGG  
YGAVTPAEVTKLQQLSSHAVPFATPSVVPGLDPGTQTSSQEFVLPNDLIGCVIGRQGSKISEIRQMSGAHIKIGN  
QAEGAGERHVTITGSPVSIALAQYLITACLETAKSTSGGTPSSAPADLPAPFSPPLTALPTAPPGLLGTPYAISL  
SNFIGLKPMFFLALPPASPGPPPGLAAYTAKMAAANGSKKAERQKFSFY

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**FIGURE 1182**

GAATTCCGCCGCTGCTACACGCCTGGTGGGCAGCATGTCGGCAACAGCGGCTGCTCGTAAGCGGGGAAAGCCGGC  
CTCTGGGGCCGGGGCTGGCGCGGGGGCCGGCAAGCGGCGGCGAAAGGCCGACTCTGCGGGGGACAGGGGCAAATC  
CAAGGGTGGCGGCAAGATGAATGAGGAGATCTCCAGCGACTCTGAGAGCGAGAGCCTAGCTCCAAGGAAGCCTGA  
GGAGGAGGAGGAGGAGGAGCTGGAGGAACTGCACAGGAAAAGAAGCTGCGCTTGCCCAAGCTCTACCTAGAGCA  
GCTCCGTGAGCAAGAGGAGGAGAAGGCTGAGGCCCGTGCATTTGAGGAGGACCAGGTGGCGGGGCGCCTGAAGGA  
GGATGTGCTTGAGCAGAGGGGCGAGGCTGCAGAAGTTGGTGGCAAAAGAGATCCAGGCCCCAGCCTCAGCTGACAT  
TCGCGTTTTACGGGGGACACAGCTCTCTATCACATGTTTTGGTCGTCACCCCCGATGACTCAGCCATCTTCTCTGC  
TGCCAAAGACTGCAGCATCATTAAGTGGAGCGTGGAGAGTGGACGGAAGCTGCATGTGATTCTCGAGCCAAGAA  
GGGTGCCGAGGGAAAGCCCCCTGGCCACAGCAGCCACGTCTCTGCATGGCCATCTCCTCCGACGGCAAGTACCT  
TGCTCTGGTGACCGCAGCAAGCTCATTCTCATTGAGGAGGCCAGAGCTGCCAGCACTTGACACCTTCACAGG  
ACACCGGGATGCAGTGTGCGGTCTGGCATTCCGCAGAGGCACCCACCAGCTCTACAGCACATCCCACGATCGCTC  
CGTGAAGGTGTGGAATGTGGCAGAGAACTCCTACGTGGAGACGCTCTTCGGACACCAGGACGCTGTGGCTGCACT  
GGATGCCTTGAGCCGGGAGTGCTGTGTGACGGCTGGGGGCCGGGATGGGACTGTACGTGTGTGGAAGATCCCCGA  
GGAGTCCCAGCTTGTCTTCTATGGCCACCAGGGCTCCATCGACTGCATCCACCTAATCAATGAGGAGCACATGGT  
GTCCGGCGCGGACGATGGCTCTGTGGCCTTGTTGGGTCTCTCCAAGAAGCGACCACTTGCCCTGCAGCGTGAAGC  
TCACGGGCTGCGGGGAGAGCCAGGCCTGGAGCAGCCCTTCTGGATATCGTCGGTGGCAGCCCTCCTCAACACAGA  
CCTTGTGGCCACAGGCTCCACAGCTCCTGTGTGCGGCTTTGGCAGTGTGGGGAAGGCTTCGGGCAGCTTGACCT  
TCTCTGTGACATCCCCCTGGTGGGTTTTATCAACAGCCTCAAGTTCTCCAGCTCTGGGGACTTCCTGGTGGCTGG  
GGTAGGGCAGGAGCACAGGCTTGCCGATGGTGGAGAATCAAAGAGGCTCGGAATTCTGTCTGCATCATCCCACT  
CCGCAGGGTCCCTGTACCCCCAGCTGCTGGTTCCTGACACTCTTATCCTCCTTATTTAAGTCCTTCCCAGGCTAT  
GCCCCACCCTCTTTGAAGCTT

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**FIGURE 1183**

MSATAAARKRGKPASGAGAGAGAGKRRRKADSAGDRGKSKGGGKMNEEISSDSESESLAPRKPEEEEEEELEETA  
QEKKLRLAKLYLEQLRQQEEEEKAEARAFEEDQVAGRLKEDVLEQGRGLQKLVAKEIQAPASADIRVLRGHQLSIT  
CLVVTTPDDSAIFSAAKDCSIKWSVESGRKLHVIPRAKKGAEGKPPGHSSHVLCMAISSDGKYLASGDRSKLILI  
WEAQSCQHLYTFTGHRDAVSGLAFRRGTHQLYSTSHDRSVKVWNVAENSYVETLFGHQDAVAALDALSRECCVTA  
GGRDGTVRVWKIPEESQLVFYGHQGSIDCIHLINEEHVMVSGADDGSVALWGLSKKRPLALQREAHGLRGEFPLEQ  
PFWISSVAALLNTDLVATGSHSSCVRLWQCCEGFRQLDLLCDIPLVGFINSKFSSSGDFLVAGVGQEHRLGRWW  
RIKEARNSVCIIPLRVPVPPAAGS



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**FIGURE 1184A**

GCAGCTTAGGCGCCACCAAGGCAAGAACCTAGCCTCCGAGGACCCCCAAAAGAAGAGAGCTCAGAAGCCCTCCCA  
CATGAGAAGAAACATACGAAAGCTACTCCGGGAGGATCAATTGGAGCCTGTTACCAAAGCAGCACAGCAAGAAGA  
GTTGGAAGAAGGAAGCGCCTGGAGCAGCAGAGGAAAGATTATGCAGCCCCCTATTCTACTGTTCCGCTGGAGTT  
CCTCCCTGAGGAAATTGCTTTAAGGGCAAGTGACGGTCCCCAACTGCCTCCTCGGGTCTTGGCCCAGGAAGTCAT  
TTGTTTGGACAGTAGCAGTGGCAGTGAGGATGAAAAAAGCAGTCGAGATGAGGTGATTGAACTGAGCTCTGGAGA  
GGAGGACACTCTGCACATTGTGGACAGCAGTGAATCTGTCACTGAAGATGATGAGGAAGAAGAGAAGGGTGGCAC  
CCATGTCAATGATGTCTTAACCAGCGTGACGCCCTTGGGCGGGTCTTGTCAACCTAAACCACCCCTCCAGAGGA  
GGAAAATGTCTTCTTGGCCCCACAGTTGGCACGGGCTGTGAAACCTCATCAGATTGGCGGGATCCGGTTCTTTA  
CGATAACCTAGTGGAGTCTCTGGAGAGGTTTAAAGACCAGCAGTGGCTTTGGCTGTATTCTGGCCCCACAGCATGGG  
TCTGGGGAAAACCTTTGCAAGTGATCTCTTTTCATCGACGTCTCTTCCGCCACACGCCAGCCAAAACAGTCCTTGC  
CATTGTGCCGGTTAATACTCTTCAGAATTGGCTGGCAGAGTTCACATGTGGCTTCCACCTCCTGAAGCCCTCCC  
GGCTGACAACAAGCCTGAAGAAGTCCAGCCTCGGTTCTTTAAAGTTCACATCTTGAATGATGAGCACAAGACGAT  
GGCATCTCGTGCTAAAGTGATGGCTGATTGGGTGTCAGAGGTGGCGTGCTGCTGATGGGGTACGAGATGTACAG  
ACTCCTCACTCTGAAGAAATCATTGTCACAGGTAGACCGAAGAAACCAAGAAGCGTTCTCACCCAGTCATCAT  
TGATCTAGATGAGGAAGATCGGCAGCAGGAGTTTCGGAGAGAGTTTGAGAAGGCTTTATGCCGCCCTGGCCCTGA  
TGTAAGTAATCTGTGATGAGGGACACCGCATCAAAAACCTGCCAGGCCAGCACCTCACAGGCTCTGAAGAATATCCG  
CTCTCGCCGCCGGGTGGTGCTGACTGGGTACCTCTGCAAAACAACCTCATTGAGTACTGGTGCATGGTGGACTT  
TGTGCGCCAGACTTCCTTGGCACCCGGCAGGAGTTCAGCAACATGTTTGAACGCCCTATCCTGAATGGGCAATG  
TATTGACAGCACACCTCAGGACGTCCGCCTCATGCGGTACCGGAGCCATGTCCTGCACAGTCTTCTGGAGGGCTT  
TGTGCAGAGGAGAGGCCACACTGTGCTGAAGATTCTCTCCCTGCCAAGGAAGAAAATGTGATCCTTGTGCGGCT  
CTCCAAGATCCAGCGAGATTTGTATACACAGTTCATGGATCGCTTCCGGGACTGTGGTAGCAGCGGTTGGCTGGG  
GCTGAACCCCTTAAGGCATTCTGTGTGTGTGTGCAAGATCTGGAATCACCTGATGTGCTGTATGAAGCCCTTCA  
GAAGGAGAGCTTGGCCAATGAGCAGGACCTAGACGTGGAAGAACTTGGCTCTGCAGGGACCAGTGCCCGCTGTCC  
ACCACAGGGAACAAAAGGCAAGGGAGAGGATAGCACCTTGGCTTCCTCGATGGGAGAGGCAACCAATAGCAAGTT  
CCTACAGGGCGTTGGCTTCAACCCTTTCCAGGAGCGAGGCAACAACATTGTACATATGAATGGGCCAAGGACCT  
TCTGACTAATTACCAGACTGGAGTCTTAGAAAACCTCTCCCAAGATGGTACTGCTTTTCCACCTGATTGAGGAAAG  
TGTGAAGCTTGGGGACAAGATCCTTGTGTTTAGCCAGAGTCTTTCCACCTTGGCTCTCATCGAGGAATTCCTTGG  
AAAACGAGAAGTACCCTGTCCACCTGGTACCGAGGGGCAAGGAGCACAGAAGTGGGTTGAAACATCAGCTACTT  
CCGGCTAGATGGTAGCACCCCTGCCTTTGAGAGGGAGCGGCTTATTAATCAGTTCAATGATCCCAGCAACCTCAC  
CACCTGGCTGTTCTTCTCTCTACAAGGGCCGGATGCTTGGGTGTGAATCTGATTGGTGCCAACCGAGTGGTGGT  
GTTTGATGCTTCTTGAAACCTTGCCATGATGCCCAGGCAGTATGTCGGGTATACCGTTATGGCCAGAAAAAGCC  
CTGTTACATCTATCGCCTTGTGGCTGATTACACTCTAGAAAAGAAGATCTATGACCGTCAGATTTCGAAGCAGGG  
CATGTGAGATCGGGTGGTGGATGATCTAAATCCAATGCTGAACCTCACACGGAAGAGGTGGAAAACCTACTGCA  
CTTTGTTGAGAAGGAGCCAGCTCCCCAAGTTTCTTGAACGTAAAGGGGATCAAGGAGTCAGTCCTGCAACTGGC  
CTGTCTGAAGTACCCTCACCTCATCACCAGGAGCCTTTCGAGCATGAGTCATTGCTCTTGAACCGAAAGGATCA  
CAAGCTAACCAAGGCTGAGAAAAAGCAGCAAGAAAAAGCTATGAGGAAGACAAACGCACATCAGTCCCTATAC  
CCGCCATCGTATGCGCAGTATTACCCTGCCAGCGATCAGAGCCTGACCAGCATCCCCGCCTTACGCCAGAGAAA  
CTGGCAGCCAACCTTGAAGGGTGATGAAAAGCCTGTGGCCAGTGTTCGTCCTGTGCAGTCCACCCCCATCCCCAT  
GATGCCCCGGCATGTCCATTGGGAGGAAGTGTAAGCTCTGCCTCCAGCACAAATCCATCCATGAACCTTCCCAT  
CAACTACTTGCAGCGTGCAGGAGTCTTGTGTCAGAAAGGTGGTCACCACGACAGATATTGTTATTCTGGACTCAA  
CAGCTCCACAGATGTACAGGCAAGAATTAATGCTGGTGAGAGCATCCACATCATCCGTGGGACAAAAGGGACGTA  
CATCCGTACCAGTGATGGACGGATCTTTGCTGTCCGGGCAACTGGCAAACCAAGGTTCTTGAAGATGGTCCGGAT  
GGCTGCCTCAGGTTCCCAGGGACCTTCTTGCGAGTCCACAAGCAACGGCAGACACAGTGCCTCATACCCAAAAGC  
CCCCGACCCTGAGGGGCTGGCCAGGCCCGTCTCTCCTGACAGCCCAGAGATCATCAGTGAGCTTCAGCAGTATGC  
AGATGTGGCTGCTGCCCGGAATCCCGTCAGAGCTCCCCAAGCACCAATGCCGCCCTGCCTGGCCCCCGGCCCA  
ACTTATGGACAGCAGTGCTGTTCCCGGGACAGCTCTCGGAACTGAGCCTCGACTAGGGGGTCAATTGCCTCAATAG  
TTCCCTCTTGGTGAAGTGGCCAGCCCTGTGGTGACAGGCACCCAGTGCTGGACTTAAGGGGGCCACAAGCGAAAGTT  
GGCCACACCACCTGCTGCCAGGAGTCATCCCGCCGGCGGTCCAGGAAGGGTCATCTGCCAGCCCCCGTGCAGCC

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**FIGURE 1184B**

GTATGAACACGGGTATCCAGTCTCTGGCGGGTTTGCCATGCCACCCGTCTCCTTAAACCATAACCTCACCACCCC  
CTTCACCTCCCAGGCTGGGGAGAACTCCCTGTTTATGGGCAGTACCCCTCCTACTACCAGCTGTCCAATTTGCT  
GGCAGATGCCCCGCCTGGTGTTTCCAGTGACTACTGACCCTCTGGTGCCAGCAGGCCCGTCAGTTCCTCTTCCAC  
GGCTACCTCAGTCACTGCCAGCAACCCCTCCTTCATGCTCAACCCCTTCTGTGCCAGGGATACTACCCAGCTATTC  
ACTCCCATTTCTCACAGCCACTCCTGTCCGAGCCGAGGATGTTTGCGCCTTTTCCTTCCCCTGTCTTGCCAGCAA  
CCTTTCGCGGGGCATGTCTATCTATCCAGGCTACATGTCCCCACATGCAGGCTACCCAGCTGGTGGCCTCCTACG  
GTCCAGGTGCCTCCATTTGACTCTCATGAGGTTGCCGAGGTTGGGTTTCAGCTCCAATGATGATGAGGATAAAGA  
CGATGATGTGATAGAGGTCCTGGGAAATAGCTAGGGAGCCCTCCCCACCTCACTTGGGGCCCCCAGCAGGTTG  
CCCACCAAGCTGAAAGGCAGTGATTTAGACCTTTTGAGAATAGGACACTTGGCAGGAGGGAAAAGGAAGAGGACA  
AAGGAGGGTGGTTGGCCAAAGTGGCAGAGCTCTGTTGCTGTTTAACAAAAGAGGC

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**FIGURE 1185**

MRRNIRKLLREDQLEPVTKAAQQEELERRKRLEQQRKDYAAPIPTVPLEFLPEEIALRASDGPQLPPRVLAQEV  
CLDSSSGSEDEKSSRDEVIELSSGEEDTLHIVDSSSVSEDEDEEEKGGTHVNDVLNQDALGRVLVNLNHPPEE  
ENVFLAPQLARAVKPHQIGGIRFLYDNLVESLERFKTSSSGFCILAHSMGLGKTLQVISFIDVLFRTHTPAKTVLA  
IVPVNTLQNWLAEFNMWLPPPEALPADNKPEEVQPRFFKVHILNDEHKTMASRAKVMADWVSEGGVLLMGYEMYR  
LLTLKKSFATGRPKKTKKRSHPVIIIDLDEEDRQQEFRREFEKALCRPGPDVVICDEGHRIKNCQASTSQALKNIR  
SRRRVVLTGYPLQNNLIEYWCMVDFVRPDLGTRQEFNSMFERPILNGQCIDSTPQDVRLMRYRSHVLHSLLEGF  
VQRRGHTVLKIHLPAKEENVILVRLSKIQRDLYTQFMDRFRDCGSSGWLGLNPLKAFVCCKIWNHPDVLYEALQ  
KESLANEQDL DVEELGSAGTSARCPPQGTGKGEDSTLASSMGEATNSKFLQGVGFNPFQERGNNIVTYEWA  
KDL LTNYQTGVLENSPKMVLLFHLIEESVKLGDKILVFSQSLSTLALIEEFLGKREVP CPPGTGQGAQKWVRN  
ISYF RLDGSTPAFERERLINQFNDP SNLTTWLFLLSTRAGCLGVNLIGANRVVVDASWNPCHDAQAVCRVYR  
YGQKKP CYIYRLVADYTLKKIYDRQISKQMSDRVDDLNPMNLNTRKEVENLLHFVEKEPAPQVSLNVK  
IKESVLQLA CLKYPHLITKEPFEHESLLLNRKDHKLTKAEKKAACKSYEEDKRTSVPYTRPSYAQYYPASDQ  
SLTSIPAFSQRN WQPTLKGDEKPVASVRPVQSTPIPMMPRHVPLGGSVSSASSTNPSMNEP INYLQRA  
GVLVQKVVTITTDIVIPGLN SSTDVQARINAGESIHIIRGTGTYIRTS DGRIFAVRATGKPKVPEDGRMA  
ASGSQGPSCESTSNGRHSASSPKA PDPEGLARPVSPDSPEI ISELQQYADVAAARESQQSSPSTNAALP  
GPPAQLMDSSAVPGTALGTEPRLGGHCLNS SLLVTGQPCGDRHPVLDLRGHRKRLATPPAAQESSR  
RRSRKGHLPAPVQPYEHGYPVSGGFAMPVSVLNHNLTTP FTSQAGENSLFMGSTPSYYQLSNLLADAR  
LVFPVTTDPLVPAGPVSSSSTATSVTASNPSFMLNPSVPGILPSYS LPFSQPLLSEPRMFAPFPSPVLP  
SNLSRGM SIYPGYMSPHAGYPAGGLLRSQVPPFDSHEVAEVGFSSNDDDKD DDVIEVTGK

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**FIGURE 1186**

GCCACCGCCGCGCCGAGTCCTTTTGTCCAAGATGGCGGCGCCGGGGGCGCTGCCTCCTCGGCCGCCGCTCCGCC  
GCCGCCGCTGTGAGAAACCTACGGGCGGCCGCCGCCGCCGCCGCCAGCGCCATGAAGCGGCAGAGCGAGCGAGACTC  
TAGCCCCGAGCGGGCGCGGCTCGTCATCGTCCGCCAAGCGTCCGCGGGAGCGCGAACGGGAGGCGGAGGCGGGCGG  
GCGGCGGGCGGGCGCACAAAGGCTCTGGCGGCGCCAAGCACCCGGTTCCAGCGCGGGGCCCGGACAAACCCCGCGG  
CAGCGGAAGCGGCGGGGGCGGGCATCGCGACGGCCGCGGCACCGGGGACGCGAATCACCGCGCGAGTAGCGGGCG  
CTCCTCGGGCTCCGGCGCTGGCGGCGGGGACGCGGCGGCAAGGCCTCGGGGACCCGGGCGCCTCCGGCATGTC  
GCCCCGCGCTCTCCTCTGCCGCCGCTCCGCCACCGCCTGGGGCCGAGCCCGCGTGTCCCGGCTCATCCGCGGC  
CGCGCTGAGTACAAGACGTTGCTCATCAGCAGCTTGAGCCCCGCGCTGCCCGCCGAGCACCTCGAGGACCGGCT  
CTTCCACCAGTTCAAGCGCTTCGGCGAGATCAGCCTCCGCTGTGCGACACGCCTGAGCTGGGCCGTGTGGCCTA  
CGTGAATTTCCGGCACCCACAGGACGCACGCGAGGCCCCGCCAGCACGCCCTGGCCCGGCGAGCTGCTGCTCTACGA  
CCGCCCCGCTCAAGGTAGAGCCCGTGTACCTGCGTGGCGGCGGGGAGCAGTCGGCGAAGTAGCAGCAGCAGCGC  
CGCCGCTTCCACGCCTCCCCCAGGGCCGCCCGCGCCCGCGGACCCGCTCGGCTACCTCCCGCTACACGGAGGCTA  
CCAGTACAAGCAGCGCTCGCTGTCCCCGTCGCTGCCCCGCCCCCTGCGGGAGCCCCGTGCCCGTCACGCCGCCGC  
AGCCTTCGCCCTGGATGCCGCTGCTGCCGCCGCCGTGGGACTGTCCCGGAGCGGGCCCTGGACTACTACGGGCT  
GTACGACGACCGTGGGCGCCCCCTATGGCTACCCAGCTGTGTGTGAGGAGGACCTGATGCCCGAGGATGACCAGCG  
GGCCACGCGCAACCTCTTCAATTGGTAACCTGGACCACAGCGTATCTGAGGTGGAGCTGCGAAGGGCCTTCGAGAA  
ATATGGCATCATCGAGGAGGTGGTCATCAAGAGGCCTGCCCGTGGCCAGGGCGGTGCCTATGCCTTCTCTAAGTT  
CCAGAACCTGGACATGGCCCATAGGGCTAAGGTGGCCATGTGCGGCCGAGTGATTGGTCGCAACCCCATTAAGAT  
AGGCTATGGCAAGGCCAACCCCACTCTGCTCTGCGGTGGGTGGCTGGGACCTAACACGTCACTGGCGGCTCT  
GGCCCGAGAGTTTGACCGCTTTGGGAGCATTGCGACCATTGATCACGTCAAAGGAGATAGCTTTGCCTATATTCA  
GTACGAGAGCTTGAGCGCAGCCCAGGCCGCTGTGCTAAAATGAGGGGTTTTCCCTTGGGTGGACCAGACCGCAG  
GCTCCGCGTGGAATTTGCCAAAGCAGAGGAGACTCGGTACCCCCAGCAGTACCAGCCCTCGCCACTCCCTGTGCA  
TTATGAGCTGCTCACAGATGGATACACCGGCACCGCAACCTGGACGCCGACCTGGTGCGGGACAGGACGCCCCC  
ACACCTTCTGTACTCAGACCGAGACCGGACTTTTTTGAAGGGGACTGGACCAGCCCCAGTAAAAGCTCTGACCG  
CCGAAACAGCCTTGAGGGCTACAGTCGCTCAGTGCGCAGCCGGAGTGGTGAGCGTTGGGGGGCAGATGGAGACCG  
TGGTTTGCCCCAAGCCCTGGGAAGAGAGGCGGAAACGGAGAAGCCTTTCCAGTGACCGTGGGAGGACAACCCATT  
ACCATATGAGGAACGGAGTAGGACCAAGGGCAGTGGGCAGCAGTCAGAGCGGGGCTCCGACCGCACCCCTGAGCG  
CAGCCGCAAGGAGAACCACTCCAGTGAAGGGACCAAGGAGTCCAGCAGCAACTCCCTCAGCAACAGCAGACATGG  
GGCTGAGGAACGGGGCCACCACCACCACCACGAGGCTGCAGACTCTTCCCACGGGAAGAAGGCAAGAGACAG  
CGAGCGCAATCACCGGACCACAGAGGCCGAGCCCAAGCCTCTGGAAGAGCCAAAACAGAGACCAAAAAGCTGAA  
GAATCTTTCAGAGTACGCTCAGACACTACAGCTGGGTTGGAATGGGCTTCTGGTGTTGAAAAACAGCTGCTTCCC  
CACGTCTATGCATATCCTAGAGGGGGACCAGGGGGTGATCAGCAGTCTCCTCAAAGACCACACTTCTGGGAGCAA  
GCTGACCCAGCTGAAGATCGCCAGCGCCTTCGACTGGACCAGCCCAAGCTTGACGAGGTCACACGACGCATCAA  
GCAGGGGAGCCCCAACGGCTATGCGGTCCTCTTAGCCACCCAGGCAACCCCCAGTGGGCTTGGCACTGAGGGGAT  
GCCACAGTAGAGCCCCGGTCTGCAGAGGCGGCTTCTCAGGAACCTGGTCTCCTACTTGAAACAGAAGCAGGCCGC  
AGGGGTGATCAGCTTGCCAGTGGGGGGGTCCAAGGGCAGAGACGGCACAGGCATGCTCTACGCCTTCCCACCTG  
CGACTTTTCCCAGCAGTACCTCCAGTCAGCACTAAGGACATTGGGCAAGCTAGAAGAAGAACATGGTGATAGT  
CATCGTCAGAGACACTGCCCTAGCCCAAGCCTGTCTTTCCAGCGTCATGTTTGTGTCACAAAAGCAGTTATTTTA  
AAATCTGATCCCCCTCTCTACCTACCACTTTGGTTTGAATTATCTCCTGGGTATTTTGGTTTCATTTGGGTGGGG  
ATCAAAGTCCTGTCCACCACCAAACTAAGTTCTTAGATTTTGGGGGATTTTTTTTTTAAACGATGAGAAGGGA  
ATCCGGTTATGTTGATTCTAGTGTACAAGATACTGTCTGCTGTGGTTCTGTATTTTTTTTATTTTTTGACCACT  
GTATGGAAGTTGTCTAGTAAACCTTTGACAGAGGATGGATTTTTTAAACCTG

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**FIGURE 1187**

CTTCCGTCGCTGCTGTAGTCGCTTCCTGCGGCCAGCCCGGGTTCAATCAGCGGCCGACAACTGTCTAGGGCTCAG  
ACACCACCAGCCAATGAGGGAGGGCAGCGTGGAGCCGCCCGTCTGGGCTCGCGGCTCCTGGACCAATGGGGAAAGT  
GGCATGTGGGAGGGCGCCGGGGGGCCCCCGCCAATGGGGAGCTACGGCGCGCGGCCGGGACTTGGAGGCGGTGC  
GGCGCGGCGGGTGCGGTTTCAGTCGGTCGGCGGCGGCAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGATGA  
GGAGGATGTGGGCCACGCAGGGGCTGGCGGTGGCGCTGGCTCTGAGCGTGCTGCCGGGCAGCCGGGCGCTGCGGC  
CGGGCGACTGCGAAGTTTGTATTTCTTATCTGGGAAGATTTTACCAGGACCTCAAAGACAGAGATGTCACATTCT  
CACCAGCCACTATTGAAAACGAACCTTATAAAGTTCTGCCGGGAAGCAAGAGGCAAAGAGAATCGGTTGTGCTACT  
ATATCGGGGCCACAGATGATGCAGCCACCAAATCATCAATGAGGTATCAAAGCCTCTGGCCCACCACATCCCTG  
TGGAGAAGATCTGTGAGAAGCTTAAGAAGAAGGACAGCCAGATATGTGAGCTTAAGTATGACAAGCAGATCGACC  
TGAGCACAGTGGACCTGAAGAAGCTCCGAGTTAAAGAGCTGAAGAAGATTCTGGATGACTGGGGGGAGACATGCA  
AAGGCTGTGCAGAAAAGTCTGACTACATCCGGAAGATAAATGAACTGATGCCTAAATATGCCCCAAGGCAGCCA  
GTGCACGGACCGATTTGTAGTCTGCTCAATCTCTGTTGCACCTGAGGGGGAAAAACAGTTCAACTGCTTACTCC  
CAAAACAGCCTTTTTGTAAATTTATTTTTTAAGTGGGCTCCTGACAATACTGTATCAGATGTGAAGCCTGGAGCTT  
TCCTGATGATGCTGGCCCTACAGTACCCCATGAGGGGATTCCCTTCCTTCTGTTGCTGGTGTACTCTAGGACTT  
CAAAGTGTGCTGGGATTTTTTTATTAAAGAAAAAAATTTCTAGCTGTC

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**FIGURE 1188**

ACCAGCCCAGCCTTTCAGTGCAGGCTCCAGCCCTCCACCCCCACCCGAGTTGCAGGATGTCGATGACAGACTTGC  
TGAACGCTGAGGACATCAAGAAGGCGGTGGGAGCCTTTAGCGCTACCGACTCCTTCGACCACAAAAAGTTCTTCC  
AAATGGTCGGCCTGAAGAAAAAGAGTGC GGATGATGTGAAGAAGGTGTTTCACATGCTGGACAAGGACAAAAGTG  
GCTTCATCGAGGAGGATGAGCTGGGATTCATCCTAAAAGGCTTCTCCCCAGATGCCAGAGACCTGTCTGCTAAAG  
AAACCAAGATGCTGATGGCTGCTGGAGACAAAGATGGGGACGGCAAAATTGGGGTTGACGAATTCTCCACTCTGG  
TGGCTGAAAGCTAAGAAGCACTGACTGCCCCTGGTCTTCCACCTCTCTG

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**FIGURE 1189**

MSMTDLLNAEDIKKAVGAFSATDSFDHKKFFQMVGLKKKSADDVKKVFHMLDKDKSGFIEEDELGFILKGFSPDA  
RDLSAKETKMLMAAGDKDGDGKIGVDEFSTLVAES

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**FIGURE 1190**

CCGCGCCAGTCGCCTAGCAGGTCCTCTACCGGCTTATTCTGTGCCGGATCTTCATCGGCACAGGGGCCACTGAG  
ACGTTTCTGCCTCCCTCTTTCTTCCTCCGCTCTTTCTCTTCCCTCTCGTTTAGTTGCCTGGGAGCTTGAAAGGA  
GAAAGCACGGGGTCGCCCCAAACCCCTTCTGCTTCTGCCCATCACAAGTGCCACTACCGCCATGGGCCTCACTAT  
CTCCTCCCTCTTCTCCCGACTATTTGGCAAGAAGCAGATGCGCATTTTGATGGTTGGATTGGATGCTGCTGGCAA  
GACAACCATTCTGTATAAACTGAAGTTAGGGGAGATAGTCACCACCATTCTACCATTGGTTTTAATGTGGAAAC  
AGTAGAATATAAGAACATTTGTTTCACAGTATGGGATGTTGGTGGTCAAGATAGAATTAGGCCTCTCTGGAAGCA  
TTACTTCCAGAATACCCAGGGTCTTATTTTTGTGGTAGATAGCAACGATCGTGAAAGAATTCAGGAAGTAGCAGA  
TGAGCTGCAGAAAATGCTTCTGGTAGATGAATTGAGAGATGCAGTGCTGCTACTTTTTGCAAACAAACAGGATTT  
GCCAAATGCTATGGCCATCAGTGAAATGACAGATAAACTAGGGCTTCAGTCTCTTCGTAAACAGAACATGGTATGT  
TCAAGCCACTTGTGCAACACAAGGAAGTGGTCTGTATGAAGGACTTGACTGGCTGTCAAATGAGCTTTCAAAACG  
TTAAATGAAATTGGATATCTAACCAAGGACATGTTTGATAAAATTGGTCTAGGCTTGTTACAACAAAATTAGTTT  
GTATCTTGGTTATTAAACAGTATCTGGGACTGGTTTGGGCAGAAATATTAACTTATTTTGTGGCAATTATTGTT  
TACCGAGTATAATGTTGCTATTTAGCAATGTGCTTGGTTTTAAAGAAATTCTCCTTGGGAAAAAAGTATCCTCTT  
TTAATTTTACTTCCCATAAAGCGTAAATGCCTGGACATAGCTCTTGTGCAACCTTTAAATAAAATTGTTTTGAGTGT  
TTTTTGAGCCCCAGACAAATAATGTTTTAAAGTTATCCCCTTGCTACTTTACTGATACCTTTATCATTCCTGAGA  
CAGTTTGCTAATTTAAAAATGTAGCATTCCATTTGTATTTATTTCTCTCCCTTGCCAAAAAGATTTTCTAATACT  
GCTTGTACCAGCCAGAGAAAGATCCAAAAACACTACTCAGCTCTCTTGCACTGAGGAAATTTTCCCCCTACATTG  
ACTCCTGGCCTACATCAGCCAAACTTAACCTTGGTGGGGTTTGGATTGATAGCCAATTAGTTCTGTGCTGGTTG  
CAAAGAATTGATATTTAGATGGTTTTTAATACTCAGCAGATTGCTTCCTTTATATTGTGCTTTTTTATGTTGC  
ATGTTGCTTTTGTATCAGCCTGATTTTTTGTCTCAGTATATGATAGTTCTGCTGATGTTTTGTTTATTGGGCAGA  
CATATCTTCATTAAGAGTTTTTGGAAAACCTACCAAATTCGATGAATACATTTTCTTCTTAACCCATTCGGAATT  
ATTCCTAATAAAATGATAAAATACGT



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**FIGURE 1191**

MGLTISSLFSRLFGKKQMRILMVGLDAAGKTTILYKLKLGEIVTTIPTIGFNVETVEYKNICFTVWDVGGQDRIR  
PLWKHYFQNTQGLIFVVDSDNRERIQEVADELQKMLLVDELRAVLLLFANKQDLPNAMAISEMTDKLGLQSLRN  
RTWYVQATCATQGTGLYEGLDWLSNELSKR

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**FIGURE 1192**

TCAGGAATCGGGATTAAAAGTTAACCAGCCAGCATCCTTTGCTATAAGGTTGAATGGCGCAAAAGGCAAGATTGA  
TGTATAGGTGCACAGCCCCCTCTGGAGCCGTGGAGGAGTGCCACGTGTCTGAGCTGGAGCCAGATAAGTATGCTGT  
TCGCTTCATCCCTCATGAGAATGGTGTCCACACCATCGATGTCAAGTTCAATGGGAGCCACGTGGTTGGAAGCCC  
CTTCAAAGTGC GCGTTGGGGAGCCTGGACAAGCGGGGAACCCCTGCCCTGGTGTCCGCCTATGGCACGGGACTCGA  
AGGGGGCACCACAGGTATCCAGTCGGAATTCTTTATTAACACCACCCGAGCAGGTCCAGGGACATTATCCGTCAC  
CATCGAAGGCCCCATCCAAGGTTAAAATGGATTGCCAGGAAACACCTGAAGGGTACAAAGTCATGTACACCCCCAT  
GGCTCCTGGTAACCTACCTGATCAGCGTCAAATACGGTGGGCCCCAACCATCGTGGGCAGTCCCTTCAAGGCCAA  
GGTGACAGGCCAGCGTCTAGTTAGCCCTGGCTCAGCCAACGAGACCTCATCCATCCTGGTGGAGTCAGTGACCAG  
GTCGTCTACAGAGACCTGCTATAGCGCCATTCCCAAGGCATCCTCGGACGCCAGCAAGGTGACCTCTAAGGGGGC  
AGGGCTCTCAAAGGCCTTTGTGGGCCAGAAGAAGTTTCCTTCCTGGTGGACTGCAGCAAAGCTGGCTCCAACATGC  
TGCTGATCGGGGTCCATGGGCCACCACCCCCCTGCGAGGAGGTCTCCATGAAGCATGTAGGCAACCAGCAATACA  
ACGTACATACGTCGTCAGGAGAGGGGCGATTATGTGCTGGCTGTGAAGTGGGGGGAGGAACACATCCCTGGCA  
GCCCCTTTTCATGTACAGTGCCTTAAAACAGTTTTTCTCAAATCCTGGAGAGAGTTCTTGTGGTTGCTTTTTGTTC  
TTGTTTGTAATTCATTTTATACAAAGCCCTCCAGCCTGTTTGTGGGGCTGAAACCCCATCCCTAAAATATTGCTG  
TTGTAAATGCCTTCAGAAATAAGTCCTAGACTGGACTCTTGAGGGACATATTGGAGAATCTTAAGAAATGCAAG  
CTTGTTTCAGGGGGCTGAGAAGATCCTGAGTACACTAGGTGCAAACCAGAACTCTTGGTGAACAGACCAGCCACT  
GCAGCAGACAGACCAGGAACACAATGAGACTGACATTTCAAAAAACAAAACCTGGCTAGCCTGAGCTGCTGGTTC  
ACTCTTCAGCATTTATGAAACAAGGCTAGGGGAAGATGGGCAGAGAAAAAGGGGACACCTAGTTTGGTTGTCATT  
TGGCAAAGGAGATGACTTAAAATCCGCTTAATCTCTTCCAGTGTCCGTGTTAATGTATTGGCTATTAGATCACT  
AGCACTGCTTTACCGCTCCTCATCGCCAACACCCCCATGCTCTGTGGCCTTCTTACACTTCTCAGAGGGCAGAGT  
GGCAGCCGGGCACCCTACAGAACTCAGAGGGCAGAGTGGCAGCCAGGCCACATGTCTCTCAAGTACCTGTCCC  
CTCGCTCTGGTGATTATTTCTTGAGAATCACACACGAGACCATCCCGGCAGTCATGGTTTTGCTTTAGTTTTT  
CAAGTCCGTTTCAGTCCCTTCCTTGGTCTGAAGAAATTCTGAGTGGCGAGCAGTTTCCCACTTGCCAAAGATCC  
CTTTTAACCAACACTAGCCCTTGTTTTTAACACACGCTCCAGCCCTTCATCAGCCTGGGCAGTCTTACCAAATG  
TTTAAAGTGATCTCAGAGGGGGCCATGGATTAAACGCCCTCATCCCAAGGTCCGTCCTCATGACATAACACTCCACA  
CCCGCCCCAGCCAACTTCATGGGTCACTTTTTCTGGAAAATAATGATCTGTACAGACAGGACAGAATGAACTCC  
TGCGGGTCTTTGGCCTGAAAGTTGGGAATGGTTGGGGGAGAGAAGGGCAGCAGCTTATTGGTGGTCTTTTACCA  
TTGGCAGAAACAGTGAGAGCTGTGTGGTGCAGAAATCCAGAAATGAGGTGTAGGGAATTTGCCTGCCTTCCTGC  
AGACCTGAGCTGGCTTTGGAATGAGGTTAAAGTGTGAGGGACGTTGCCTGAGCCCAAATGTGTAGTGTGGTCTGG  
GCAGGCAGACCTTTAGGTTTTGTGCTTAGTCCTGAGGAAGTGGCCACTCTTGTGGCAGGTGTAGTATCTGGGGC  
GAGTGTGGGGGTAAAAGCCCACCCTACAGAAAGTGAACAGCCCGGAGCCTGATGTGAAAGGACCACGGGTGTT  
GTAAGCTGG

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**FIGURE 1193**

ATAGAGGACACGACCAAGATGCGCGGCGGTGTCTGGCTTGGTGCGGAGACCCCTTCGGGAGGTCTCCGGGCTGCTG  
AAGAGGCGCTTTCACTGGACCGCGCCGGCTGCGCTGCAGGTGACAGTTCGTGATGCTATAAATCAGGGTATGGAT  
GAGGAGCTGGAAAGAGATGAGAAGGTATTTCTGCTTGGAGAAGAAGTTGCCAGTATGATGGGGCATACAAGGTT  
AGTCGAGGGCTGTGGAAGAAATATGGAGACAAGAGGATTATTGACACTCCCATATCAGAGATGGGCTTTGCTGGA  
ATTGCTGTAGGTGCAGCTATGGCTGGGTTGCGGCCCATTGTGAATTTATGACCTTCAATTTCTCCATGCAAGCC  
ATTGACCAGGTTATAAACTCAGCTGCCAAGACCTACTACATGTCTGGTGGCCTTCAGCCTGTGCCTATAGTCTTC  
AGAGGGCCCAATGGTGCTCAGCAGGTGTAGCTGCCCAGCACTCACAGTGCTTTGCTGCCTGGTATGGGCACTGC  
CCAGGCTTAAAGGTGGTCAGTCCCTGGAATTCAGAGGATGCTAAAGGACTTATTAAATCAGCCATTCGGGATAAC  
AATCCAGTGGTGGTGTAGAGAATGAATTGATGTATGGGGTTCCTTTTGAATTTCCCTCCGGAAGCTCAGTCAAAA  
GATTTTCTGATTCCATTGGAAAAGCCAAAATAGAAAGGCAAGGAACACATATAACTGTGGTTTTCCATTCAAGA  
CCTGTGGGCACTGCTTAGAAGCTGCAGCAGTGCTATCTAAAGAAGGAGTTGAATGTGAGGTGATAAATATGCGT  
ACCATTAGACCAATGGACATGGAAACCATAGAAGCCAGTGTCATGAAGACAAATCATCTTGTAACCTGTGGAAGGA  
GGCTGGCCACAGTTTGGAGTAGGAGCTGAAATCTGTGCCAGGATCATGGAAGGTCCTGCGTTCAATTTCTGGAT  
GCTCCTGCTGTTCTGTCTCACTGGTGCTGATGTCCCTATGCCTTATGCAAAGATTCTAGAGGACAACCTCTATACCT  
CAGGTCAAAGACATCATATTTGCAATAAAGAAAACATTAAATATTTAGTTTGGACTTGAATATCAAGTCGTTGAA  
ATTTATTTGAAATACTTGCTGGCACTGCACCTGGATTTGTACTGCAAGACCTGACTATTCATAACGGAAAACGAT  
TTCTAAAGCAACAGCAGGTATTTTTGTACAGGGAAGTTTAAATGTGTTTGTGTATGGAAAACCTCTCCACTCTCCT  
CCCCTAGATGCCATGCTTCCTTTTGTCTGTTACGGTTGCCATGTTCTTTGAATAACAAATTATATAACATTTTAT  
CCTCTCTCACCACAAGGACAAAGTATGGATGTGGCAGAGTCCTCATGAAAGATGTATCCAACAAGATAACTTAT  
ATGTATAAAATTAAAGCATATAATATACATTTACTGTTAGTTTGTTTTGATAAGGAATAAAGGAATTTCTAACAT  
G

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**FIGURE 1194**

MAAVSGLVRRPLREVSGLLKRRFHWTAPALQVTVRDAINQGMDEELERDEKVFLLGEEVAQYDGAYKVSRLWK  
KYGDKRIIDTFISEMGFAGIAVGAAMAGLRPICEFMTFNFSMQAIDQVINSAAKTYMSGGLQVPVIVFRGPNGA  
SAGVAAQHSQCFAAWYGHCPGLKVSPWNSEDAKGLIKSAIRDNNPVVLENELMYGVPFEFPPEAQSKDFLIPI  
GKAKIERQGTHITVSHSRPVGHCLEAAAVLSKEGVECEVINMRTIRPMDMETIEASVMKTNHLVTVEGGWPQFG  
VGAEICARIMEGPAFNFLDAPAVRVTGADVPMPLYAKILEDNSIPQVKDIIFAIKKTLNI

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**FIGURE 1195**

GTCAGCCGCTGTCCCCTTAGCCGCGATGCCGCTGGAGAACCTGGAGGAGGAGGGTCTGCCCAAGAACCCCGACTT  
GCGTATCGCGCAGCTGCGCTTCCTGCTCAGCCTGCCCAGCACCGCGGAGACGCTGCCGTGCGCGACGAGCTGAT  
GGCGGCCGTCCGCGATAACAACATGGCTCCTTACTATGAAGCCTTGTGCAAATCCCTCGACTGGCAGATAGACGT  
GGACCTACTCAATAAAATGAAGAAGGCAAATGAAGATGAGTTGAAGCGTTTGGATGAGGAGCTGGAAGATGCAGA  
GAAGAATCTAGGAGAGAGCGAAATTCGCGATGCAATGATGGCAAAGGCCGAGTACCTCTGCCGGATAGGTGACAA  
AGAGGGAGCTCTGACAGCCTTTCGCAAGACATATGACAAAACCTGTGGCCCTGGGTCACCGATTGGATATTGTATT  
CTATCTCCTTAGGATTGGCTTATTTTATATGGATAATGATCTCATCACGAAACACAGAAAAGGCCAAAAGCTT  
AATAGAAGAAGGAGGAGACTGGGACAGGAGAAACCGCCTAAAAGTGTATCAGGGTCTTTATTGTGTGGCTATTCTG  
TGATTTCAAACAGGCAGCTGAACTCTTCCTTGACACTGTTTCAACATTTACATCCTATGAACTCATGGATTATAA  
AACATTTGTGACTTATACTGTCTATGTCAGTATGATTGCCTTAGAAAAGACCAGATCTCAGGGAAAAGGTCATTAA  
AGGAGCAGAGATTCTTGAAGTGTTGCACAGTCTTCAGCAGTTCGGCAGTATCTGTTTTACTCTATGAATGCCG  
TTACTCTGTTTTCTTCCAATCATTAGCGGTTGTGGAACAGGAAATGAAAAAGGACTGGCTTTTTGCCCCCTCATT  
TCGATACTATGTAAGAGAAATGAGAATTCATGCATACAGTCAGCTGCTGGAATCATATAGGTCATTAACCCTTGG  
CTATATGGCAGAAGCGTTTGGTGTTGGTGTGGAATTCATTGATCAGGAACGTCCAGGTTTATTGCTGCCGGGAG  
ACTACACTGCAAAATAGATAAAGTGAATGAAATAGTAGAAACCAACAGACCTGATAGCAAGAACTGGCAGTACCA  
AGAAACTATCAAGAAAGGAGATCTGCTACTAAACAGAGTTCAAAAACCTTCCAGAGTAATTAATATGTAAAGCCA  
TGTAACTAACAAAGGATTTGCTTTAGAGATAATTATTTGGAATTTTATAGCTTACTTCACAATGTGCCCAGGTC  
AGCTGTATAAAATAAATACTGCATTGTTGTTTC

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**FIGURE 1196**

MPLNLEEEGLPKNPDLRIAQLRFLLSLPEHRGDAAVRDELMAAVRDNNMAPYYEALCKSLDWQIDVDLLNKMKK  
ANEDELKRLDEELED AEKNLGESEIRDAMMAKAEYLCRIGDKEGALTAFRKYDKTVALGHRLDIVFYLLRIGLF  
YMDNDLITRNTEKAKSLIEEGGDWDRNRNLKVYQGLYCVAIRDFKQAAELFLDTVSTFTSYELMDYKTFVTTYTVY  
VSMIALERPDLREKVIKGAEILEVLHSLPAVRQYLFSLYECRYSVFFQSLAVVEQEMKKDWLFAPHYRYVREMR  
IHAYSQLESYRSLTLGYMAEAFGVGVFEFIDQELSRFIAAGRLHCKIDKVNEIVETNRPD SKNWQYQETIKKGDL  
LLNRVQKLSRVINM

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**FIGURE 1197**

GAGAAGCCATGAGCAGCAGTCTCTCGCAACACCCTGTACGAGGCGGTGCGGGAAGTCCTGCACCGGAACCAGCGC  
AAGCGCCGCAAGTTCCTGGAGACGGTGGAGTTGCAGATCAGCTTGAAGAACTATGACCCCCAGAAGGACAAGTGC  
TTCTCGGGCACCGTCAGACTTAAGTCCACTCCCCGCCCTAAGTTGTGTGTGTGTCTCCTGGGGGACCAGCAGCAC  
TGTGACGAGGCTAAGGCCGTGGATATCCCCACATGGACATCGAGGCGCTGAAAAAACTCAAAAAGAATAAAAAA  
CTGGTCAAGAAGCTGGCCAAGAAGTATGATGCGTTTTTGGCCTCAGAGTCTCTGATCAAGCAGATTCCACGAATC  
CTCGGCCCAGGTCTAAATAAGGCAGGAAAGTTCCCTTCCCTGCTCACACACAACGAAAACATGGTGGCCAAAGTG  
GGTGAGGTGAAGTCCACAATCAAGTTCCAAATGAAGAAGGTGTTATGTCTGGCTGTAGCTGTTGGTCACGTGAAG  
ATGACAGCCGATGAGCTTGTGTATAACATTACCTGGCTGTCAACTTCTTGGTGTGATTGCTCAAGAAAACTGG  
CAGAATGTCCGGGCCCTTATATATCGAGAGCACCATGGGCAAGCCCCAGCGCCTATATTAAGGCACATTTGAATAA  
ATTCTATTACCAGTTCAAAAAAAAAAAAAAAAAAAAACAAAAAAAAA

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**FIGURE 1198**

GCTCAAGTGGCCAAGGCAAGATGGGTCAAAGTCAGAGTGGTGGTCATGGTCCTGGAGGTGGCAAGAAGGATGACA  
AGGACAAGAAAAAGAAATATGAACCTCCTGTACCAACTAGAGTGGGGAAAAAGAAGAAGAAAACAAAGGGACCAG  
ATGCTGCCAGCAAACCTGCCACTGGTGACACCTCACACTCAGTGCCGGTTAAAATTACTGAAGTTAGAGAGAATTA  
AAGACTATCTTCTCATGGAGGAAGAATTCATTAGAAATCAGGAACAAATGAAACCATTAGAAGAAAAGCAAGAGG  
AGGAAAAGATCAAAAGTGGATGATCTGAGGGGGACCCCGATGTCAAGTAGGAACCTTGGAAGAGATCATTGATGACA  
ATCATGCCATCGTGTCTACATCTGTGGGCTCAGAACACTACGTCAGCATTCTTTTCATTTGTAGACAAGGATCTGC  
TGGAACCTGGCTGCTCGGTCTGCTCAACCACAAGGTGCATGCCGTGATAGGGGTGCTGATGGATGACACGGATC  
CCCTGGTCACAGTGATGAAGGTAGAAAAGGCCCCCAGGAGACCTATGCAGATATTGGGGGGTTGGACAACCAAA  
TTCAGGAAATTAAGGAATCTGTGGAGCTTCCTCTCACCCATCCTGAATATTATGAAGAGATGGGTATAAAGCCTC  
CTAAGGGGGTCATTCTCTATGGTCCACCTGGCACAGGTAAAAACCTTGTTAGCCAAAGCAGTAGCAAACCAAAACCT  
CAGCCACTTTCTTGAGAGTGGTTGGCTCTGAACTTATTGAGAAGTACCTAGGTGATGGGCCCAAACTCGTACGGG  
AATTGTTCCGAGTTGCTGAAGAACATGCACCGTCCATCGTGTATTATTGATGAAATTGACGCCATTGGGACAAAAA  
GATAAGACTCCAATTCTGGTGGTGAGAGAGAAATTCAGCGAACAATGTTGGAAGTCTGAACCAGTTGGATGGAT  
TTGATTCTAGGGGAGATGTGAAAGTTATCATGGCCACAAACCGAATAGAAACTTTGGATCCAGCACTTATCAGAC  
CAGGCCGCATTGACAGGAAGATTGAGTTCCCCCTGCCTGATGAAAAGACGAAGAAGCGCATCTTTCAGATTACACA  
CAAGCAGGATGACGCTGGCTGATGATGTAACCCTGGACGACCTGATCATGGCTAAAGATGACCTCTCTGGTGCTG  
ACATCAAGGCAATCTGTACAGAAGCTGGTCTGATGGCCTTAAGAGAACGTAGAATGAAAGTAACAAATGAAGACT  
TCAAAAAATCTAAAGAAAATGTTCTTTATAAGAAACAGGAAGGCACCCCTGAGGGGCTGTATCTCTAATGAACCA  
TGGCTGTCATCAGGAAAATGGTTGGGAGATTTCTCAGTCCCTGAAAGGGATGAGGCTGGGGGAGTTGCCCAGAGG  
AATCCCTGTTCCCACTGATTTTTATTAGCAAAACATCCTGTGTCTTTTGGAGTACGATGTGTAAGTGCCCATGG  
GTGGCCTGTTGGTCACTGTGCAGCAGTCTGCTTCCCAATAAAGCGTGCTCTTTCACAA



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**FIGURE 1199**

ATGCCTTCAAAGGAAAAGCAAGGGACACTCACCTTGCAAACCATCAAACCTATTCCACAGACGCCACATGAGC  
CCCCATTTATCTGACTTAAAAGAAGCAGGGTCTGCTGGGATTCTGAATCCTCTGGTTCCAGAGAGAGAAGCTCTTT  
CAAAGACTGGATTCTGGCCACAAAAGAAGGTTCTGCTTACTGGAATCAAGAGGTCAAAGATTTTCTGAATCA  
TGCATCCACGGAGAAGAGCCCATTAGGGCTATTCCAGCAGACAGCAGTAAGGATGTCCATGAGCTTTATGTTGTT  
GTTGGGAGCTGGGATTCTACTCTTCCAGAAGAATATGACCTCAAAGGAGCCACCACAGAACGAGCTCGGCACCC  
ATCTACGAATGTATTGCTAAGGATCATTGGGGATGGGGTGACCCAGAAGTGAAGTGGCTCCATGATCCATTAAAC  
AATCACCTGAAATCCACAGTGCCAGTCAACTAATGGGGCTTGAGGCCATCATTAGGTCACTGGAAAATGATATC  
TTCCTGGAGGTTGATACTGGCTTCACCATCCTGAGAGCAGAAGGCTTGAGGGAGGAACAGCCTCCTGGGCATGGA  
GGCACCTGCCATCCCACATCAAATCACAGAGCCATGCTTAAAAGGGCCAGGTGGATGACTTATGTGGAAGAAGTG  
AGCCGGGTGAGGATTTCTACTTCGAGAAACCTTGCTCGAAGCGCTTTTCATCATTCTCTCTACACAACAAACCCT  
GAACTCTTAGAAGCAGCTCTTGGCACAGGAGCCTCCAACCCGTTTTTTCAGCCGGCTTTCTCTACTTGTTCAT  
TCCATGATCACAGAAAACAGCTCCATTAAGACTCTTTTCAGGTCTACCAAAGAGCTAGTGATTGCACTCAATCGA  
TGTTTCTTCGGCATTACTCAAAGTGACGCTACACTCAGCCCACAGCTTCACATCAGATTTATCAGCAGAGAACAA  
AAGAAGTACTTGAAATTGCCACTTACAACGTTTATGAGTAAACTGGAATCCAAAGTCTGGCCTCTAGCCAAGCGG  
TTACGCCAGTGGCCTGACTCATATACAAAGAAGTTTGAGCACAGAATCTACCCCATCACATTTTCTGTTGGAAC  
CCTCAGGAGTGGAAGAAATTGTTCAAACCCTGTGCTGCCCAGAGACTCTTTCTTCCGATCAACCTGGAGCTCTAC  
GCCTCCTACGTTTACCTGTCCATGTCTTACTACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATAC  
TTTCTTCACCAATCTCATGAGGAGAGGGAACATGCCGAGAACTGATGACGTTGCAGAACCAACGAGGTGGCCGA  
ATCTTCCTTCAGGATATCAAGAAACCAGACTGTGACGACTGGGAGAGCGGGCTGAATGCGATGGATGACAAAAAT  
GACCCCCATTTGTGTGACTTCATTGAGACACATTACCTGAATGAGCAGGTGAAAGCCATCAAAGAATTGGGTGGC  
CACGTGACCAACTTGTGCAAGATGGGAGCACCCGAATCTGGCTCGGCAGAATATCTCTTTGACAAGCACACGCTG  
GGAGACAGTGATAACGAAAGCTAA

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**FIGURE 1200**

MPSKEKQGTLTLQNHQNYSHRRHMSPHLSDLKEAGSAGIRILWFQREKLFQRLDSGPQKKVPAYWNQEVKDFSES  
CIHGEEP IRAIPADSSKDVHELIVVVGSWDSTLPEEYDLKRSHRTSSAPIYECIAKDHGWGDPEVNWLHDPLN  
NHPEIHSASQLMGLGAIIRSLENDIFLEVDTGFTILRAEGLREEQPPGHGGTCHPTSNHRAMLKRARWMTYVEEV  
SRVRISTSRNLARSAFIILSYTTNPELLEAALGTGASNPFPSRLSLLVSHSMITENS SIKTLFRSTKELVIGPKD  
ARRDFQVVS RGSADFWRK LASSDGSICLLSIGKPELIRLIQLIK

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**FIGURE 1201**

ATGATCTTTAATTTTGGCCCTGAATACCTTGGTTGCAATCACTGTGCTTGTTTATCCAAACGGCATTTCAGGAATAC  
ATACGACAACTGCCTCCGAATTTTCCCTACAGAGATGATGTCATGAGGCCTGGAGAACCCAGGAGTTTCCAAGCT  
GTGCTGCCACCCGAGCTCTGGATCCACCTGGCTGTGGTGGCCTGTGGCAATCGGCTGGAGGAGACGCTGGTCATG  
CTCAAATCAGCTGTGCTTTTTAGCCACAGGAAGATCCAATTCCACATCTTCACTGAAGACTCTCTGAAGCCCGAG  
TTTGATAAGCAGTTACGCCAGTGGCCTGACTCATATACAAAGAAGTTTGAGCACAGAATCTACCCCATCACATTT  
TCTGTTGGAAACCCCTCAGGAGTGGAAGAAATTGTTCAAACCCCTGTGCTGCCCAGAGACTCTTTCTTCCGATCAAC  
CTGGAGCTCTACGCCTCCTACGTTTACCTGTCCATGTCTTACTACTTTGACCGCGATGATGTGGCTTTGAAGAAC  
TTTGCCAAATACTTTCTTCACCAATCTCATGAGGAGAGGGAACATGCCGAGAACTGATGACGTTGCAGAACCAA  
CGAGGTGGCCGAATCTTCCTTCAGGATATCAAGAAACCAGACTGTGACGACTGGGAGAGCGGGCTGAATGCGATG  
GATGACAAAAATGACCCCCATTTGTGTGACTTCATTGAGACACATTACCTGAATGAGCAGGTGAAAGCCATCAAA  
GAATTGGGTGGCCACGTGACCAACTTGTGCAAGATGGGAGCACCCGAATCTGGCTCGGCAGAATATCTCTTTGAC  
AAGCACACGCTGGGAGACAGTGATAACGAAAGCTAA

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**FIGURE 1202**

GTGGCGTGTGAGTGGCTCTTCCTGGCTGCTGAGGCGGGTTAAGGTCTGAGGGTCTTGTGGGGCCACGGCGCTG  
ATCACCAGGTGTTTGGCTTGGTCGGTTCTTATTTCTCGCCTGGCAATGGCGACGTACACCTGCATAACTTGCCGG  
GTGGCGTTCCGCGACGCGGACATGCAGCGGGCCCACTATAAGACGGACTGGCACCGCTACAACCTGCGGGCGAAG  
GTGGCCAGCATGGCCCCAGTGACCGCCGAGGGCTTCCAGGAGCGAGTGCGGGCGCAGCGGGCCGTGCGGGAGGAG  
GAGAGCAAGGGCTCGGCCACCTACTGCACCGTTTGAGTAAGAAGTTTGCCTCTTTCAACGCCTACGAGAACCAC  
CTCAAGTCCCGGCGTCACGTTGAGCTGGAGAAGAAGGCCGTGCAGGCAGTGAATCGGAAAGTGGAGATGATGAAT  
GAAAAGAACTTGGAGAAAGGACTGGGCGTGGACAGTGTGGACAAGGATGCCATGAACGCGGCCATCCAGCAGGCC  
ATCAAGGCCCAGCCGTCCATGTCTCCCAAGAAGGCGCCCCCAGCGCCTGCAAAGGAGGCCAGGAATGTCGTGGCC  
GTGGGTACTGGTGGCCGTGGGACCCACGACCGAGACCCGAGTGAGAAACCACCCCGCTCCAGTGGTTTGAACAG  
CAGGCGAAGAAGTTGGCAAAGCAGCAGGAGGAGGACAGCGAGGAGGAGGAAGAGGACCTGGATGGAGACGATTGG  
GAAGATATTGATTCTGATGAAGAATTGGAATGTGAGGATACTGAAGCAATGGACGATGTGGTGGAGCAGGATGCA  
GAGGAGGAAGAGGCTGAGGAAGGCCACCCCTTGGTGCCATCCCTATCACGGACTGCTTATTTTGTTCCTCAT  
TCCAGCTCGCTGATGAAGAATGTGGCTCACATGACCAAAGACCACAGTTTCTTTATTCCTGATATAGAATATCTT  
TCAGATATTAAGGGACTGATTAAATACTTGGGAGAGAAAGTTGGTGTGGCAAGATTTGCTTGTGGTGCAACGAG  
AAAGGGAAGTCCTTCTACTCCACAGAAGCTGTACAGGCACATATGAATGACAAAAGCCACTGTAAGCTCTTCACA  
GATGGCGATGCTGCTTTGGAATTTGCAGACTTCTATGATTTTAGGAGTAGCTATCCAGATCACAAGGAAGGGGAG  
GACCCCAATAAGGCTGAGGAGTTGCCCTCAGAAAAGAACTTGAATATGATGATGAAACCATGGAATTGATTCTG  
CCTTCTGGTGCCAGAGTGGGTCATCGCTCCTTGATGAGATACTACAAACAGCGATTTGGCTTGTCAAGAGCTGTG  
GCAGTTGCCAAAAATCGGAAGGCCGTGGGCCGAGTACTTCAGCAGTACAGAGCCCTGGGATGGACTGGCAGCACA  
GGAGCGGCTCTTATGCGAGAGCGAGACATGCAGTATGTCCAAAGGATGAAATCAAATGGATGCTGAAGACAGGA  
ATGAAGAACAATGCCACCAAGCAGATGCACTTTCGGGTCCAAGTGAGATTCTGAGAGTCTGCTGGGATTGAGCAA  
TCATCTCCTGCCAAGTTTCCTCCTTGCCCTGAGGACCAGTGAAAGACAGATCATAGGAGAGACCCTTTTGCTGC  
TACTTCATTCGTTCTGACCTAATAATAAAAGTTAGAACCAT

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**FIGURE 1203**

GCAGACGCCATTATCCTCTGTTTCTCTGCTGCACCGACCTCGACGCCTTGCCTGTGGCCCACTTGTTCACTGACT  
ATAGGCTACTGCAGCACTGGGGTGTCTAGTTGTTGGTCCCACCCAGAACGCTTCAGTTCTGCTCTGCAAGGATATA  
TAATAACTGATTGGTGTGCCCATTTAATAAAAGAATATGTAACTGAACAGCCGGAAGAAACCTTCCCGAACACT  
GAAACCAATGGTGAATTTGGTAAACACCCTGCAGAAGATATGGAAGAGTAACAAGCATTAAAAAGATCTAGAAAC  
ACTGATGAGATGGTTGAATTACGCATTCTGCTTCAGACCAAGAATGCTGGGGCAGTGATTGGAAAAGGAGGCAAG  
AATATCAAGGCTCTCCGTACAGACTACAATGCCAGTGTTTCAGTCCCAGACAGCAGTGGCCCCGAGCACATATTG  
AGTATCAGTGCTGGTATTGACACAATTGGAGAAATTCTGAAGAAAATCATCCCTACCTTGGAAGAGTACCAACAC  
TATAAAGGAAGTGACTTTGACTGCGAGTTGAGGCTGTTGATTTCATCAGAGTCTAGCAGGAGGAATTATTGGGGTC  
GAAGGTGCTAAAATCAAAGAACTTCGAGAGAACTCAAACCACCATCAAGCTTTTCCAGGAATGCTGTCCTTAT  
TCCACTGACAAGAGTTGTTCTTATTGGAGGAAAACCCGATAGGGTTGTAGAGTGCATAAAGATCATCCTTGATCT  
TATATATGAGTCTCCCATCAAAGGACGTGCACAGCCTTATGATCCCAATTTTTATGATGAAACCTATGATTATGG  
TGGTTTTACAATTATGTTTGATGACCGCTGTGGACGCCCAGTGGGATTTCCTATGCGGGGAAGAGGTGGTTTTGA  
CAGAATGCCTCCTGGTCAGGGTGGGCGTCCCATGCCTCCATCTAGAAGAGATTATGATGATATGAGCCCTCGTCA  
AGGACCACCTCCACCTCCTCCAGGACAAGGTGGTGAGGGTGGTAGCAGAGCTCGGAATCTTCCTCTTCCTCCTCC  
ACCACCACCTAGAGGGGGAGACCTCATGGCCTATGACAGAAGAGGGGAGACCTGGAGACTGTTACCATGGCATGGT  
TGGTTTCAGTGCTGATGAACTTGGGACTCTGCAATAGATACATGGAGCCCATCAGAATGGCAGATGGCTTATGA  
ACCACAGGGTGGCTCCAGATATGATTATTCCTATGCAGGGGGTCTGTGGCTCATATGGTAATCTTGGTGGACTTAT  
TATTACTACACAAGTAACGATTCCCAAAGATTTGGCTGGATCTATTATTG

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**FIGURE 1204**

ATGAATAAGGAGAATCACTCCTTGATAGCTGAGTTCATCCTCACAGGATTTACATATCATCCAAAGCTGAAGACT  
GTTCTGTTTGTGGTGTCTTTGCCATCTATCTGATCACCATGGTGGGGAACATTGGTTTGGTGGCATTGATTTAT  
ATAGAGCAACGTCTTCACACACCAATGTACATATTTTTAGGCAACCTAGTTCTGATGGATTCTGCTGTTCTCTCT  
GCTATTACTCCCAAGATGTTAGAGAACTTCTTTTCTGAGGACAAAAGGATTACCCTGTATGAATGTATGGCACAA  
TTTTATTTTCTCTGTCTTGCTGAAACTACAGACTGCTTTCTTCTGGCGGCAATGGCCTATGACTGCTATGTGGCC  
ATATGCAACCCACTGCAGTACCACACCATGATGTCCAAGACACTCTGCATTTCAGATGACTGCAGGAGCCTACCTA  
GCTGGCAACCTGCATCCCATGATTGAAAACCTTTTGCCAGAGTAGCAGCCAACTTGAGGTTGCCCCGATTTCT  
GACATCATTGCAATCAAGTCACCTGACACATTTGTGAGAACTATTTATGCAGGAAATGCTCTATGTACAGTGAAG  
TGTGATGAGAAAAGTGAAAGTGTTTTCTGTCCGTGGAACATCCTTTGATGCTGCAGCAACAAGTGGCGGTAGTGCC  
AGTTCAGAAAAGGCATCAAGTACTTCACCAGTGGAAATATCAGAGTGGCTTGACCAGAAATTAACAAAAAGTGAT  
CGACCAGAGCTAACAGGTGCCAAAGTGGTGGTATCTGGTGAAGTCTATCCATCTTATAACACACTCATTCTTCAG  
ACACATCACAATGCACATGATCAGATTACAGCTTTCTTTACCTTAAGGATGTCTTCAACCACCACAAGCCCTTTC  
CAAATTCCTACGTAGATAAAATTTGGCTTTTCTAG

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**FIGURE 1205**

ATGATCAGGTGTGATAAGTGCTGTAATGAAGGCAATTACAAGGAGAGGATATTTGAAATCATTGCTGTGGAGGGT  
GAGAGTGC GAACAAGGAAGTTGTGGTAGCATTGCTAGACAGTTTTGAGAGCCCAGCTCCAGAGCTTAAGGTTATT  
GCTGAATTAAGCCACGCCTCATTGCTACGATTTGAGAGTACCCTGGTAATAGCTGAGCATGCAAATGATTCCCTA  
GCACCCATTACTTTAAATACCATTACTGCAGCCACACGCCTTGGAGGTGAAGTGTCTGCTTAGTAGCTGGAACC  
AAATGTGACAAGGTGGCACAAGATCTCTGTAAAGTAGCAGGCATAGCAAAAGTTCTGGTGGCTCAGCATGATGTG  
TACAAAGGCCTACTTCCAGGTGAGGTTTTCCAGTAG

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**FIGURE 1206**

TCTTTTCGCCATCTTTTGTCTTTCCGTGGAGCTGTCGCCATGAAGGTCGAGCTGTGCAGTTTTAGCGGGTACAAG  
ATCTACCCCGGACACGGGAGGCGCTACGCCAGGACCGACGGGAAGGTTTTCCAGTTTCTTAATGCGAAATGCGAG  
TCGGCTTTCCTTTCCAAGAGGAATCCTCGGCAGATAAACTGGACTGTCCTCTACAGAAGGAAGCACAAAAAGGGA  
CAGTCGGAAGAAATTCAAAAGAAAAGAACCCGCCGAGCAGTCAAATTCCAGAGGGCCATTACTGGTGCATCTCTT  
GCTGATATAATGGCCAAGAGGAATCAGAAACCTGAAGTTAGAAAGGCTCAACGAGAACAAGCTATCAGGGCTGCT  
AAGGAAGCAAAAAAGGCTAAGCAAGCATCTAAAAAGACTGCAATGGCTGCTGCTAAGGCACCTACAAAGGCAGCA  
CCTAAGCAAAAAGATTGTGAAGCCTGTGAAAGTTTCAGCTCCCCGAGTTGGTGGAACGCTTAAACTGGCAGATTA  
GATTTTTAAATAAAGATTGGATTATAACTCT



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**FIGURE 1207**

MKVELCSFSGYKIYPGHGRRYARTDGKVFQFLNAKCESAFLSKRNPRQINWTVLYRRKHKKGQSEEIQKKRTRRA  
VKFQRAITGASLADIMAKRNQKPEVRKAQREQAIRAAKEAKKAKQASKKTAMAAAKAPTKAAPKQKIVKPKVSA  
PRVGGKR

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**FIGURE 1208**

GCTCCTCCACAGGAGGCCTACACGCCGCCGCTTGTGCTGCCGCCATGTCGCTAGTGATCCCTGAAAAGTTCCAGC  
ATATTTTGCAGTACTCAACACCAACATCGATGGGCAGCGGAAAATAGCCTTTGCCATCACTGCCATTAAGGGTG  
TGGGCCGAAGATATGCTCATGTGGTGTGAGGAAAGCAGACACTGACCTCACCAAGAGGGCGGGAGAACTCACTG  
ATGATGAGGTGGAACGTGTGATCACCGTTATGCAGAATCCACGCCAGTACAAGATCCCAGACTGGTTCTTGAACA  
GACAGAAGGATGTAAAGGATGGAAAATATAGCCAGGTCCCTAGCCAATGGTCTGGACAACAAGCTCCGTGAAGACC  
TGGAGCGACTGAAGAAGATTCGGGCCCATAGAGGGCTGCGTCACTTCTGGGGCCTTCGTGTCCGAGGCCAGCACA  
CCAAGACCACTGGCCGCCGTGGCCGCACCGTGGGTGTGTCCAAGAAGAAATAAGTCTGTAGGCCTTGTCTGTAA  
TAAATAGTTTATATACC

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**FIGURE 1209**

ACCGCGGGGCTGGGTCCCAGCCGGCAGCAGAGAGCTGGTCGCCCACCACCCCAAGCTACTGCTGCCGCTGGCT  
ATTTCCCGGGGGGGCGGTACGTGGTGGTGGCTGAGAGCCCCCTGCCGCTGGCGAGTGGGAGCTGTGCCGCGCAG  
TCCCGGGCCCTGCTTACGAGGAGGAGGGCACTCCCCTGCGCTACCAGCGTCTGGTGCCCTCTCGCAGCCGCATCG  
TGCGGACGCCCTCCCTGAAGGACAGCCCGGCAGGCCGGGGGCTCAGCAAGGCCGCCGTGTCCGAGGAGCTCAAGT  
GGTGGCACGAGCGTGACGCCTCCGGAGCACCCGCCCCCACTCACTGGACCGCCAAGGAGCTTTCCGGGTGAGGA  
GCCTGCCCCCTTGGGAGAGAGGGCTTCGGGCGAGCCCTGGGACCCCGGGCACAGGTGCCCCACAGTGTGTGTGCTGC  
GGAGATCGCCTGACGGGGCCCCCTGTGCAAGTCTTTGTACCTGAAAAAGGAGAGATCATCAGCCAGGTGTAACCTCT  
GCGCCCCACGCTGGAAAAAACTGTTTCATAGAGGGGCTGGGCTGAGACCCCCCCCCACCCCTGAGTGCCTCTTTTTCAG  
CTTCCCCATCCCCATCGCAGGCCGATGACCTGGAGCTGAGACCTTTTTATTATTTTTTTTTTACACGACTTTTTTC  
AGAAGCCCTGACCTAAGGATTTATATATGTGGATTGTCCTCAATACCCCTGTGATATGATTATGTTTTATCCCCC  
AGAGTTTGGCCTACTGGACTTAAGGCCTTGCCCTGTCTGACTGACAGCCTCTATCTCCTTATATAAGACAAGTGGC  
AGGGGACGAGTGAAGCAGAGTGGGCCACCTTGGGAGTTCTCCAACACTCTGTGCTCTGGTTCTAAGAAATTCCCT  
GGGGAAGTGGCCCTGGCCCTCCTGTCCCACTATTGCTGGAGGCTGGACATGGTACATACTCATGCACATGACTCT  
CCCCCATTTCCAGGTCTCTGGGTACCCAGCCTGGGCTGGGGGAGAATCTCTTCCCCCTTTCTAATGTGCTCTG  
TGATGCACACACCAAGTGGTAGGTCAAAGGTGAGTATATCCCGGTGGTGTATTGTCTTGCTAGACCCTGCTATTT  
TCCTGACCCCCCTAAATCCTCTTTAGGGACCCAGTCACTATACCCTGTCTATGCCCTGTGGGCTCCAGACCCCTG  
AGCTTTGAGTCAGTGGCATCACGGTTTGTAGCCTCAGGGGTCCGGCTGGGGGCTGATCCATGCTTGTGGTTAGT  
GGACAGCAGCCACCCCTTTGACAGCTACCTCTGGGCATCTCAAGGGCTTGACGCCCCACTGCTCCTTCTAACATTT  
TGTTTGTGTTTTTGTGAGATGGAGTCTCGCTCTGTCGCCCAGGCTGGAATGCAGTAGCAAGATTTGGGCTCACTG  
CAACCCCGTCTCCCGGGTTCAAGCGAATCTCCTGCCTCAGCCTTCCGAGTAGCTGGGATTACAGGCAAGCACCA  
CCATGCCTGCTAATTTTTTATTTTTTAGTAGAGATGGGGTTTTCATCATGTTGGCCAGGCTGGTCTCGAACTCCTGA  
CCTCAAGTGATCCACCTGCCTTGGCCTTTCAAAGTGCTGGGATTACAGGCATGAGCCACCGCACCTGGCCCTTCT  
AACGTTTTTTCATCATAGTCCCAAAAACCAATACTTTACAAGTGGTTTTTGAAAGGCACCACTTTTGTGGCATGT  
TCTGGTTGGGAGAGGGAGTCACAGTTCCTACTCCCCCACCAGCTATGCTTCTGCTCTGAGAAGGTGGTTATTTA  
TACAAACATGGACATACTCACTCCCAAGGGCTGATGAGATGCTGAATTTTCTTTGGGGGCATTATTAATTGTCC  
CAGCTGCAGCGACTGGAGCAAGTCTGGAAGCTGCCTGTGCTAAGACCACCCAGCTGTCCCTGGGTCTCATCCTA  
GGGCCTTCTTTGCTTCCAGGTGAGGGGACCTGCTTCAATGAGAAAGCAACTGAATTGAGGCTAGGAGAGGTAGGG  
AGAGCTGAGTTCTGACTTCACCTGTGCAGAACTCTCTGCCCCATGTTACCTGGACTGGAACAGACTGTGAATAT  
AGCAGAAGGTTCCAAGAACTCTGGTGTCTGACCTAGAAGAGGCACAGTTCTCTCTACTGGAAAGAAAACGATGTA  
GCCGATTGCACAAGGGTGCCAAGGGAAGACCCAGGATGGCCCATCAAAGGAACCTGGGGGAGGATGCAGGAGGCT  
GAAGGGATGCACCTGGCAATTTCTCTCACTGTGCTCTTACCGCATCAGCAACCCCCAACTTTTGGGCCTACTCTGC  
CCCCCATGCGTGAATACCCTGCTTGGATGCTGTGCTTTTTCCGGTTTGTCTCTAAGCCCCCTTTCTCCAGGGCATGT  
TGGTTTTCCCTGGCCTCTCAGTGTCTTAAGTGGAGCCCAGAGTGCCTTGTACTGAGCCAGGAGACGGCTGAGCACT  
GGCCCTCCACACCTAAGCGTCTTTACATTAACCTTATTGGTCTTGTATAACACCTGGTGCCATTGCCAAGTGGCT  
GTGTCCTCAGCTACAGAGCTGGAATTGTGTGGGGTTTTAGTGCTAAATACTTCAATAAAGTCTGTTTTTTGTGATT  
GGCTG

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**FIGURE 1210**

MFWLGEGVTVPTPPTSYASALRRWLF IQTWYSLPRADEMLNFLWGHSLIVPAAATGASLEAACAKTTQLSLGSH  
PRAFFASRSGDLLQ

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**FIGURE 1211**

ATGAAACTCTTCTACGAATGTGGGAAATGCAAAAAGGAATTGAAGGAAGGGAAAAAACTGAAGCCTGGAAAACAT  
ATTAATCCCAGTGCTTTTACGCCCCGGAACAAAGAGACTAAGCCAGACTATGGGGGAAAAGGGAGATAAGAAGGAT  
CCTGGAACTTTAAAGAGGGGAAAAGAGTGAGATTAGAAAATCGCCAGGACTGGACTTTAAGGGACGTCCTGTGTGAG  
CACAAGGGACTGGCACACACAGACACACGAGACCGAGGAGAACTGCAGACAAATGGAGATACAAAGACTTAGAA  
GGACAGCTCCTTTACCTCATCCTACTTGTCCAGAAGTGTGTGGATCAGAACCCCAACCCCATGCCACTATTAGA  
GGCAGCCACGGAGGACGGAAAGTGCCCTTTGGTTTCTCCGGACAGCAGTAGGCCAGCTCGGTTTCTGAGGCACACT  
GGGAGGTCTCGCGGAATTGAGAGATCCACTCTGGAGGAACCAAACCTTCAGCCTCTCCAGAGAAGGAGGAGTGTG  
CCCGTGTGAGACTAGCTCGCCCAACAGAGCCGCCAGCCCGCTCGGACATCAATGGGGCCGCCGTGAGACCTGAG  
CAAAGACCAGCAGCCAGGGGGCTCTCCGCGTGAGATGATCAGAGATGAGGGGTCTCAGCTCGGTCAAGAATGTTG  
CGTTTCCCTTCGGGGTCCAGCTCTCCCAACATCCTTGCCAGCTTTGCAGGGAAGAACAGAGTATGGGTCTATCTCA  
GCCCCCTCATGCCCTCGGAAGGCTACTACCGCCTCATGATGAGCCTGCTGAAGGACGATGTGTACTGTGAGCTGGCG  
GAGAGGCACATCCAACAGATTGTGCTCTTCCACCAGGCAGGTGAGGAAGGAGGCAAGGTGAGAAGGATCACCAGC  
GAGGGCCAGATCCTGGAGCAGCCCTTGACCCTAGCCTCATCCCTAAGCTGATGAGCTTCCTGAAGCTGGAGAAG  
GGCAAGTTTGGCATGGTGCTGCTGAAGAAGACGCTGCAGGTGGAGGAGCGCTATCCATATCCCGTTAGGCTGGAA  
GCCATGTACGAGGTCTATCGACCAAGGCCCATCCGTAGGATCGAGAAGATCAGGCAGAAAGGGCTTTGTCCAGAAA  
TGTAAGGCCTCTGGTGTAGAGGGCCAGGTGGTGGCGGAGGGGAATGACGGTGAGGGGGGAGCAGGAAGGCCAAGC  
CTGGGCAGCGAGAAGAAGAAAGAGGACCCAAGGAGAGCACAAGTCCCACCAACCAGAGAGAGTCGGGTGAAGGTC  
CTGAGAAAACCTGGCCGCCACTGCACCAGCTTTGCCCAACCTCCCTCAACCCCAAGAGCCACCACCCTTCCTCCT  
GCCCCAGCCACAACAGTGACTCGGTCCACGTCCCGGGCGGTAACAGTTGCTGCAAGACCTATGACCACCACTGCC  
TTTCCCACCACGCAGAGGCCCTTGACCCCTCACCTCCACAGGCCCCCTACAACCACTGAGGTGATCACTGCC  
AGGAGACCCTCAGTTTCAGAGAATCTTTACCCTCCATCCCGGAAGGATCAGCACAGGGGAGAGGCCACAGACAACC  
AGGAGGCCCAGCAAGGCCACCAGCTTGAGAGCTTCACAAATGCCCTCCCACCACCATCTCAGAACCACAGCACA  
AGGGCTGCTGGCCCAGGCCGTTTCCGGGACAACCGCATGGACAGGCGGGAACATGGCCACCAGACCCAAATGTG  
GTGCCAGGTCTCTCCAAGCCAGCAAAGGAGAAACCTCCCAAAAAGAAGGCCCAAGGACAAAATTCTTAGTAATGAG  
TATGAGGAGAAGTATGACCTCAGCCGGCCTACTGCCTCTCAGCTGGAGGACGAGCTGCAGAGTCCCAAGAAGTCA  
GTGGCCGACCTGCTGGGGTCCCTTTGAAGGCAAACGAAGACTCCTTCTGATCACTGCTCCCAAGGCTGAGAACAAT  
ATGTATGTGCAACAACGTGATGAATATCTGGAAGTTTCTGCAAGATGGCTACCAGGAAAATCTCTGTGATCACC  
ATCTTCGGCCCTGTCAACAACAGCACCATGAAAATCGACCACTTTTCAGCTAGATAATGAGAAGCCCATGCGAGTG  
GTGGATGATGAAGACTTGGTAGACCAGCGTCTCATCAGCGAGCTGAGGAAAAGAGTACGGAATGACCTACAATGAC  
TTCTTCATGGTGCTAACAGATGTGGATCTGAGAGTCAAGCAATACTATGAGGTACCAATAACAATGAAGTCTGTG  
TTTGATCTGATCGATACTTTCCAGTCCCGAATCAAAGATATGGAGAAGCAGAAGAAGGAGGGCATTGTTTGCAA  
GAGGACAAAAAGCAGTCCCTGGAGAACTTCTATCCAGGTTCCGGTGGAGGAGGAGTTGCTGGTGATCTCTGCT  
CCTAACGATGAAGACTGGGCCTATTACAGCAGCTCTCTGCCCTCAGTGGTCAGGCGTGCAATTTTGGTCTGCGC  
CACATAACCATTCTGAAGCTTTTAGGCGTTGGAGAGGAAGTTGGGGGAGTGTTAGAACTGTTCCCAATTAATGGG  
AGCTCTGTTGTTGAGCGAGAAGACGTACCAGCCATTGTTGGTGAAGACATTCGTAATTTTTCAAGTGAGCCCG  
GAGTACTTCTCCATGCTTCTAGTCGGAAAAGACGGAAATGTCAAATCCTGGTATCCTTCCCAATGTGGTCCATG  
GTGATTGTGTACGATTTAATTGATTCGATGCAACTTCGGAGACAGGAAATGGCGATTCAGCAGTCACTGGGGATG  
CGCTGCCCAGAAGATGAGTATGCAGGCTATGTTTACCATAGTTACCACCAAGGATACCAGGATGTTTACCAGGAT  
GACTACCGTCATCATGAGAGTTATCACCATGGATACCTTACTGA

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**FIGURE 1212**

MTWRMGPRFTMLLAMWLVCGSEPHPHATIRGSHGGRKVPLVSPDSSRPARFLRHTGRSRGIERSTLEEPNLQPLQ  
RRRSVPVLRRLARPEPPARSDINGAAVRPEQRPAARGSPREMIRDEGSSARSRLRFPSSSSPNILASFAGKNR  
VWVISAPHASEGYRLMMSLLKDDVYCELAERHIQQIVLFHQAGEEGGKVRITSEGQILEQPLDPSLIPKLMSF  
LKLEKGFVGMVLLKKTQVEERYPPVRLEAMYEVIDQGPRIKIRQKGFVQCKASGVEGQVVAEGNDGGGG  
AGRPSLGSEKKKEDPRRAQVPPTRESRVKVLRLAATAPALPQPPSTPRATTLPPAPATTVTRSTSRAVTVAARP  
MTTAFPTTQRPWTPSPSHRPPTTTEVITARRPSVSENLYPPSRKDQHRERPQTRRPSKATSLESFTNAPPTTI  
SEPSTRAAGPGRFRDNRMDRREHGHRDPNVVPGPPKPAKEKPPKKKAQDKILSNEYEEKYDLSRPTASQLEDELQ  
VGNVPLKKAKESKKHEKLEKPEKEKKKKMKNNENADKLLKSEKQMKKSEKKSQEKESKKKKGGKTEQDGYQKPT  
NKHFTQSPKKSADLLGSFEGKRLLLLITAPKAENNMVYQORDEYLESFCKMATRKISVITIFGPVNNSTMKIDH  
FQLDNEKPMRVVDDDLVDQRLISELRKEYGMTYNDFFMVLTDVLDLRVKQYYEVPITMKSVFDLIDTFQSRIKDM  
EKQKKEGIVCKEDKKQSLENFLSRFRWRRRLVISAPNDEDWAYSQQLSALSGQACNFGLRHITILKLLGVGEEV  
GGVLELFPINGSSVVEREDVPAHLVKDIRNYFQVSPEYFSMLLVGKDGNVKSWYPSPMWSMVIVYDLIDSMQLRR  
QEMAIQQSLGMRCPEDEYAGYGYHSYHQGYQDGYQDDYRHHSYHHGYPY

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**FIGURE 1213**

TTCTGGAAGGGAGAATGGCGGCGCCCGGGCTGCGGCTGGGAGCGGGAAGACTCTTTGAAATGCCTGCGGTGCTA  
GAGCGACTGAGCCGCTATAATAGCACGTCCCAAGCTTTTGCTGAGGTGCTGCGGCTGCCGAAGCAGCAGCTGAGG  
AAGCTGCTGTACCCGCTGCAGGAAGTAGAGCGGTTCTTCGCCCCCTACGGGAGGCAAGACCTTCACCTGCGTATC  
TTTGACCCAAGCCCGGAGGACATAGCCAGGGCGGACAACATCTTCACGGCCACTGAACGGAACCGCATCGACTAC  
GTCAGCTCCGCGCTCCGTATCGACCACGCCCCGGACCTTCGCGGCCAGAGGTGTGTTTTATAGGCAGAAGCAAT  
GTTGGAAAATCATCTCTAATCAAGGCTTTATTTTCACTGGCCCCCTGAGGTTGAAGTCAGAGTCTCCAAAAAACCA  
GGACACACAAAGAAAATGAATTTTTTCAAAGTTGGAAAACATTTTACAGTGGTGGACATGCCAGGTTATGGCTTT  
AGAGCACCTGAAGATTTTGTGACATGGTAGAGACCTATCTAAAAGAACGAAGGAAGTTGAAGAGAACATTTTTTA  
TTAGTGGATAGCGTTGTTGGAATTCAAAAACAGACAATATTGCCATAGAAATGTGTGAAGAATTTGCATTACCT  
TATGTGATTGTATTAACAAAAATTGACAAATCTTCCAAGGGACATCTTTTAAAACAAGTGCTTCAGATCCAGAAA  
TTTGTTAACATGAAAACCAAGGATGTTTTCTCAGTTGTTTCTGTAAAGTGCTGTGACCTTTTCTGGAATCCAC  
CTGTTGAGATGCTTTATAGCCAGTGTAACAGGAAGTCTTGACTAATGGTTCCCGGTTTAGCTGAAGATTCAAAAA  
AAAAAAAAAAAAAGCTTTATGCTAACTGGAGTTAAATACCTAGAAGAATTTCAACATTGTTTTAAATGTTGTGCATC  
TGTAACCTTCAGGAGGATCACTTGAGCTTTTAAACCTGTGCCTTCTCGAAACAAGAATTTGTGCCTGAGGTGAAAA  
AAGTTTGTAAGTTATTGAATTATGGTGTTCATTAGAACAGCTACTAGCTGATTCCCCTATTTTAACAAACTGACA  
AGAGCACATCCATAAAATGAAAACCTGTTACAACCTATGTACAGAAGGGTTTGACGTTTTATTGGGCTTTTGTCTT  
TTAAAGAATATGTCTACTATGGGTATTTTTTTTTTAAATGTTAAAATGGGCTAGGTAAAAGGGGGCTGCTTTTCT  
GTTAAGCATCGATAGGTAAGTTGATGGATAAAAGTTACTATGTAAGCCTATTTTTTTGAGTCCTTATTTGAATAT  
TGAAAACATTCTTGATAAAATGTGTTAGTCCATGTTGGAAACAACCGAAAGAACAGAATTCAAGTTCTAGTTCTG  
ATGTTTATTATATATGTTGGATCTTGGGCACTTACTTGATTTCTCGGAAATTCATTTGTTACTGTAAACGTGAA  
AGCTATTAAGATTCAAATGAATGGTTTTACAGCAGGTAACATGTGAGAAGACAGCTACATATTTGTAAAGCCAAA  
CCAACAAAGAAATATAGCAAAATTCACAGGTAGATTTATTACAAGAAATGTCCTTTTCATGGGGGAAGTAACATTT  
TCACTAGTGAAAAAGCAAAAAACAAAAATAGCTTTAAGTGAGAAAACATAATTT

**FIGURE 1214**

[illegible]



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**FIGURE 1215**

MLTGVLLANGTLNASILNSLYNENLVKEGVSAFAVKLFKSWINEKDINAVAASLRKVSMDNRLMELFPANKQSV  
EHFTKYFTEAGLKELSEYVRNQQTIGARKELQKELQEOMSRGDPFKDIILYVKEEMKKNNIPEPVVIGIVWSSVM  
STVEWNKKEELVAEQAIKHLKQYSPLLAFTTQGQSELTLLKIQEYCYDNIHFMKAFQKIVVLFYKAEVLSEEP  
ILKWYKDAHVAKGKSVFLEQMKKFVEWLKNAEEEESESEAEEGD

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**FIGURE 1216A**

GGCACGAGGGATCGGCGGAGCTCCACCTCCGCTTACAGCTCGCTGCCGCCGTCTTGCCCCGCGCCCCAGGAGA  
CCTGGACCAGACCACGATGTGGAAACGCTGGCTCGCGCTCGCGCTCGCGCTGGTGGCGGTGCGCTGGGTCCGCGC  
CGAGGAAGAGCTAAGGAGCAAAATCCAAGATCTGTGCCAATGTGTTTTGTGGAGCCGGCCGGGAATGTGCAGTCAC  
AGAGAAAGGGGAACCCACCTGTCTCTGCATTGAGCAATGCAAACCTCACAAGAGGCCTGTGTGTGGCAGTAATGG  
CAAGACCTACCTCAACCACTGTGAACTGCATCGAGATGCCTGCCTCACTGGATCCAAAATCCAGGTTGATTACGA  
TGGACACTGCAAAGAGAAGAAAATCCGTAAGTCCATCTGCCAGCCCAGTTGTTTGCTATCAGTCCAACCGTGATGA  
GCTCCGACGTGCGATCATCCAGTGGCTGGAAGCTGAGATCATTCCAGATGGCTGGTTCTCTAAAGGCAGCAACTA  
CAGTGAAATCCTAGACAAGTATTTTAAGAACTTTGATAATGGTGATTCTCGCCTGGACTCCAGTGAATTCCTGAA  
GTTTTGTGGAACAGAATGAAACTGCCATCAATATTACAACGTATCCAGACCAGGAGAACAACAAGTTGCTTAGGGG  
ACTCTGTGTTGATGCTCTCATTGAACTGTCTGATGAAAATGCTGATTGGAACTCAGCTTCCAAGAGTTTCTCAA  
GTGCCTCAACCCATCTTTCAACCTCCTGAGAAGAAGTGTGCCCTGGAGGATGAAACGTATGCAGATGGAGCTGA  
GACCGAGGTGGACTGTAACCGCTGTGTCTGTGCCTGTGGAAATTGGGTCTGTACAGCCATGACCTGTGACGGAAA  
GAATCAGAAGGGGGCCAGACCCAGACAGAGGAGGAGATGACCAGATATGTCCAGGAGCTCCAAAAGCATCAGGA  
AACAGCTGAAAAGACCAAGAGAGTGAGCACCAAAGAGATCTAATGAGGAGGCACAGACCAGTGTCTGGATCCAG  
CATCTTCTCCACTTCAGCGCTGAGTTCAGTATACACAAGTGTCTGTCTACAGTCGCCAAATCACCAGTATTTGCTT  
ATATAGCAATGAGTTTTATTTTGTATTGTTTTGCAATAAAGGATATGAAGGTGGCTGGCTAGGAAGGGAAGG  
GCCACAGCCTTCATTTCTAGGAGTGCTTTAAGAGAACTGTAAATGGTGCTCTGGGGCTGGAGGCTAGTAAGGAA  
ACTGCATCACGATTGAAAGAGGAACAGACCCAAATCTGAACCTCTTTTGAGTTTACTGCATCTGTGACGAGGCTG  
CAGGGAGTGACACAGATGCCAGAGAGAACTTAGCAGGGTGTCCCCGGAGGAGAGGTTTGGGAAGCTCCACGGAGA  
GGAACGCTCTCTGCTTCCAGCCTCTTTCCATTGCCGTGAGCATGACAGACCTCCAGCATCCACGCATCTCTTGGT  
CCCAATAACTGCCTCTAGATACATAGCCATACTGCTAGTTAACCCAGTGTCCCTCAGACTTGAGTGGAGTTTCTG  
GGAGGGTACACCCAAATGATGCAGATACTTGTATACTTTAGCCCCCTTAGCGACCTAACCCAAATTTAAAAATAC  
TTTTTACCAAAGGTGCTATTTCTCTGTAAAACACTTTTTTTTTTGGCAAGTTGACTTTATTCTTCAATTATTATCA  
TTATATTATTGTTTTTTAATATTTTATTTTCTTGACTAGGTATTAAGCTTTTGTAATTATTTTTCAGTAGTCCCA  
CCACTTCATAGGTGGAAGGAGTTTGGGGTCTTCTCGGTGCAGGGGCTGAAATAACCCAGATGCCCCACCCTGC  
CACATACTAGATGCAGCCCATAGTTGGCCCCCTAGCTTCCAGCAGTCCACTATCTGCCAGAGGAGCAAGGGTGC  
CTTAGACCGAAGCCAGGGGAAGAAGCATCTTCATAAAAACTTTCAAGATCCAAACATTAATTTGTTTTTATTTA  
TTCTGAGAAGTTGAGGCAAATCAGTATTCCCAAGGATGGCGACAAGGGCAGCCAAGCAGGGCTTAGGATATCCCA  
GCCTACCAATATGCTCATTTCGACTAAGTAGGAGGGTGAGTTGGCCCTGTCTCTCTTTTCTGGACCTCAGTTT  
CCTCAGTGAGCTGGTAAGAAATGCACTAACCTTTTGATTGATAAGTTATAAATCTGTGGTTCTGATCATTGGTC  
CAGAGGGGAGATAGGTTTCTGTGATTTTCTCTCTCTATAGAATAAATGAAATCTTGTTACTAGAACAAAGAA  
ATGTCAGATGGCCAAAAACAAGATGACCAGATTTGATCTCAGCCTGATGACCCTACAGGTCGTGCTATGATATGG  
AGTCCTCATGGGTAAAGCAGGAAGAGAGTGGGAAAGAGAACCACCCCACTCTGTCTTCATATTGCAATTCATGT  
TTAACCTCCGGCTGGAAATAGAAAGCATTCCTTAGAGATGAGGATAAAAGAAAGTTTCAGATTCACAGGGGGA  
AGAAAATGGAGATTTAATCCTAAACTGTGACTTGGGGAGGTGAGTCATTTACAGTTAGTCCTGTGTCTTTTCGAC  
TTCTGTGATTATTAACCCCACTCACTACCTGTTTTAGATGCATTTGGAATACCAAAGATTAAATCCTTGACATA  
AGATCTCATTTCAGAAAGCAGATTAAAGACCATCAGAAGGAAATTATTTAGGTTGTAATGCACAGGCAACTGTG  
AGAACTGTTGTGCCAAAAATAGAATTCCTTCTAGTTTTTCTTGTTCTCATTGAAAGGAGAAAATCCACTTGT  
TTTAGCATTTCAAGCTTTTATGTATCCATCCATCTAAAACTCTTCAAACCTCACTTGTTGAGTCTGAAATGCA  
GCTCCCTGTCCAAGTGCTTGGAGAAGTACAGCAGCAGCCTTAATCAAAGGTTTTACCAGCCCTTGGACACTA  
TGGGAGGAGGGCAAGAGTACACCAATTTGTTAAAGCAAGAAACCACAGTGTCTCTTCACTAGTCATTTAGAACA  
TGTTTATCATCCAAGACTACTCTACCTTGCAACATTGAACTCCCAAGAGCAAAATCCACATTCTTCTGAGTTCTG  
CAGCTTCTGTGTAAATAGGGCAGCTGTGCTCTATGCCGTAGAATCACATGATCTGAGGACCATTTCATGGAAGCTG  
CTAAATAGCCTAGTCTGGGGAGTCTTCCATAAAGTTTTGCATGGAGCAAAACAAACAGGATTAACTAGGTTTGGT  
TCCTTCAGCCCTCTAAAGCATAGGGCTTAGCCTGCAGGCTTCCTTGGGCTTTCTCTGTGTGTGTAGTTTTGTAA  
ACACTATAGCATCTGTTAAGATCCAGTGTCCATGGAAACATTCCCACATGCCGTGACTCTGGACTATATCAGTTT  
TTGGAAAGCAGGGTTTCTCTGCCTGCTAACAAGCCACGTGGACCAGTCTGAATGTCTTTCCTTTACACCTATGT  
TTTTAAGTAGTCAAACTTCAAGAAACAATCTAACAAGTTTCTGTTGCATATGTGTTTGTGAACTTGTATTGTGA

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**FIGURE 1216B**

TTTAGTAGGCTTCTATATTGCATTAACTTGTTTTGTAACCTGATTCTTCCTTTTCGGATACTATTGATGAA  
TAAAGAAATTAAAGTGAIAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1217**

MWKRWLALALVAVAVRAEEELRSKSKICANVFCGAGRECAVTEKGEPTCLCIEQCKPHKRPVCGSNGKTYLN  
HCELHRDACLTGSKIQVDYDGHCKEKKSVSPSASPVVCYQSNRDELRRRIQWLEAEIIPDGWFSKGSNYSEILD  
KYFKNFDNGDSRLDSSEFLKFVEQNETAINITTYPDQENNKLLRGLCVDALIELSDENADWKLSEFLKCLNPS  
FNPPEKKCALEDETYADGAETEVDNRCVCACGNWVCTAMTCDGKNQKGAQTQTEEMTRYVQELQKHQETAECT  
KRVSTKEI

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**FIGURE 1218**

CTCCCAAGATGTCGTTCCCAAAGTATAAGCCGTCGAGCCTGCGCACTCTGCCTGAGACCCTCGACCCAGCCGAAT  
ACAACATATCTCCGGAACCCGGCGGGCGCAAGCCGAGCGGTTGGCCATAAGAGCCCAGCTGAAACGAGAGTACC  
TGCTTCAGTACAACGATCCCAACCGCCGAGGGGCTCATCGAAAATCCTGCCTTGCTTCGTTGGGCCTATGCAAGAA  
CAATAAATGTCTATCCTAATTTAGACCCACTCCTAAAACTCACTCATGGGAGCTCTGTGTGGATTTGGGCCCC  
TCATCTTCATTTATTATATTATCAAACTGAGAGGGATAGGAAAGAAAACTTATCCAGGAAGGAAAATTGGATC  
GAACATTTACCTCTCATATTAAGTCTGGCAATGATGACTATATGTATTCTGCCTAAATAAATCATCTATTAAT  
CATTAAAAA

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**FIGURE 1219**

MSFPKYKPSLRILPETLDPAEYNISPETRRQAERLAIRAQLKREYLLQYNDPNRRGLIENPALLRWAYARTIN  
VYPNFRPTPKNSLMGALCGFGPLIFIYYIIKTERDRKEKLIQEGKLDRTFHLST

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**FIGURE 1220**

GATGACACACAATAATTTTTGGTTGAAGAAGATAGAAATCAGTGTTTCAGAAGCAGAAAAACGAACTGGAAGAAA  
TGCCATGAACATGCAAGAAACATATACTGCTTACCTCATTGAAACAAGGTCAGTTGAACATACCGATGGTCAGAG  
TGTCTTAACAGACTCACTATGGCGGCGATATAGTGAATTTGAGTTGTTGAGAAGCTACCTTTTAGTTTACTATCC  
ACATATTGTTGTGCCACCTCTGCCAGAAAAACGGGCAGAAATTTGTTTGGCATAAACTCTCTGCTGACAACATGGA  
TCCAGATTTTGTGGAGAGGCGACGGATTGGTTTAGAAAACCTTCTCTTGAGGATTGCTTCACATCCCATCCTTTG  
TAGAGACAAAATCTTCTATCTGTTTTTAACACAGGAAGGTAAGTGAAGGAGACTGTGAATGAACTGGGTTTCA  
GCTGAAGGCAGACTCCAGGTTAAAAGCGCTTAATGCAACATTGAGAGTGAAAAACCCAGACAAGAGATTTACTGA  
CCTTAAGCACTATAGTGATGAAGTGCAGTCTGTCATCTCACATCTTCTTCGAGTCAGAGCTAGAGTAGCAGATCG  
ACTCTATGGTGTATATAAAGTACATGGGAATTATGGTCGAGTTTTTCAGTGAATGGAGTGCCATAGAAAAAGAAAT  
GGGTGATGGACTGCAGAGTGCTGGTCATCATATGGATGTGTATGCATCTTCTATTGATGATATTTTGAAGATGA  
AGAACATTATGCAGATCAGTTAAAAGAGTATCTTTTTTATGCAGAAGCATTGCGGGCTGTGTGCAGGAAACATGA  
ACTTATGCAGTATGACTTGGAGATGGCTGCTCAGGACTTAGCATCCAAGAAGCAGCAGTGTGAGGAAGTGGTAAC  
TGGGACTGTGAGAACATTCTCTTTGAAGGGAATGACTACCAAGCTCTTTGGTCAAGAACTCCAGAGCAGAGAGA  
AGCCAGAATAAAGGTGCTAGAAGAACAATAAATGAAGGAGAACAACAGCTAAAGTCTAAAAATCTGGAAGGCAG  
AGAATTTGTGAAAAACGCATGGGCTGATATTGAACGCTTCAAGAACAAGAACCGAGACTTAAAGGAGGCCCT  
CATAAGCTATGCAGTCATGCAGATCAGTATGTGCAAAAAGAGTCTCACCTGTCAACCAGGCTGGAGTGCAATGG  
CATGATCTCAGCTCACTACAACCTCCGCCTCCCGTGTTCAAGCAATTCTACCTCATCCAGCCGAGTAGATGGGAT  
TACAGGGAATTCAGTTTGGACCAATGCTAAGGAATGCTTTAGCAAGATGTAATCCTGTGAATTGAATTTCTCTT  
CAATCAAAGTGCCCCAAAACAGAAGCACAAAGTAAATAAAAGAAATTTAAGTCACTACCTAGTATACATAAACATA  
TACAATAAGTTAAATAAAATTCAGCTTTCTTTAACTTAATTGTGGTCGTGTTAATGTAGCACAAAAAATATATTTT  
AATGAAGATTAAATATTATAATTTGAGGTTTTGGGGACTGGTGCTGATTCCAAAAAGTTAATTTAATAATATATA  
CCAACAGATTGTTTGTACGCTTCTGAACCAATGACTGAATGTCAAGATGTTGTTAATTTCTAGATGTTTGT  
CAAGACCAGCTGTTTCAGATCTATTAATGTAGGGAATTTTCCCTAAGATTGAATTCCTATATTTACTTGGTAAG  
ATCCACTAATCTGTTATAGGGAGTTGTTTTCTCTTGCCTTATAGTTGAGCTATTTGGTTTGACAAAGCTCAGCAG  
AACTTGATGTGAAAAATCTACGATTTTCTTCTACATTGATGCCCCCTTGAATGTTTGACATACACTAGAAA  
ATGCCTTCAATTTGTGTTTTACCAGAATTTTGATACTGGTCAGAAATTTTATACTGCCAACAAAGAAGACTCAAC  
TTCTCAGATCTATAATGGGATACATTGTCATCCTCTAGCAACTCCTATATAGAAAGTTTTAACTGAATATGTTAC  
ATATAAGAATTAAATCTTCTCAAATAATTCTTAACCTCAGTAATGAGCCTAAATTTACTCTGCTTGGCTCTCTA  
CACATGGCATTTCAGGGTATAAGATGTAGCATTTCATGTGTAAGATATATGTACTAAACATATGTGTTGCTATC  
TTCATCATTAACATCCTTCTTTCTATTGCTTGGCTGTAATTTTGTAAAGATAAAATTATATTGTTTTTTTGTAT  
GTGTGTTTGTAGTATATGTTTCAAGGCAAGCATCTTCATTTTGTAGCTTTGCAGAACTTAAATGTGTACTC  
GTTATTTCTAATGATGTAAAAAAAATCCCTAGTCCTGTTTAGCATTTGACTTTTTTATATGTTTTAAATGTTGC  
TGGATTTTTGTGCTGTTTGCCAACTTATACAATAAATAAATGAAATATTGTGCTG

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**FIGURE 1221A**

GCAATTTTAGAATGTGCTGGACAAAATGTAGAAAGGGAATGTTCTCAGCAAGCTCAGCAGCGCAAAAATGATTAT  
ATAATCACCGGAGGTGGATTTTTGAGGTGCAAGAATATCATTCATGTAATTGGTGGAAATGATGTCAAGAGTTCA  
GTTTCCTCTGTTTTGCAGGAGTGTGAAAAAAAATTACTCATCCATTTGCCTCCCAGCCATTGGGACAGGAAAT  
GCCAAACAACCCAGATAAGGTTGCTGAAGCCATAATTGATGCCATTGAAGACTTTGTCCAGAAAGGATCAGCC  
CAGTCTGTGAAAAAGTTAAAGTTGTTATCTTTCTGCCTCAAGTACTGGATGTGTTTTATGCCAACATGAAGAAA  
AGAGAAGGGACTCAGCTTTCTTCCCAACAGTCTGTGATGTCTAAACTTGCATCATTTTTGGGCTTTTCAAAGCAA  
TCTCCCCAAAAAAGAATCATTTGGTTTTGGAAAAGAAAACAGAATCAGCAACTTTTCGGGTGTGTGGTGAAAAAT  
GTCACGTGTGTGGAATATGCTATCTCCTGGCTACAAGACCTGATTGAAAAAGAACAGTGTCTTACACCAGTGAA  
GATGAGTGCATCAAAGACTTTGATGAAAAGGAGTATCAGGAGTTGAATGAGCTGCAGAAGAAGTTAAATATTAAC  
ATTTCCCTGGACCATAAGAGACCTTTGATTAAGGTTTTGGGAATTAGCAGAGATGTGATGCAGGCTAGAGATGAA  
ATGAGGCGATGATCAAGAGAGGTTTCGATTGGGCAAAGAACAGGAATCCCGGGCAGATTGTATCAGTGAGTTTATA  
GAATGGCAGTATAATCGACAATAACACTTCTCATGTGTTTTAACAAAATGACCAATCTGAAATTAGAGGATGCAA  
GGAGAGAAAAGAAAAAACAGTTGATGTCAAAATTAATCATCGGCACTACACAGTGAAGTTGAACACATACACTG  
CCACAGACACAAAGGGCCACAGTTTATCTGTTTCAGCGCCTCACGAAATCCAAAGTTGACATCCCTGCACACTGGA  
GTGATATGAAGCAGCAGAATTTCTGTGTGGTGGAGCTGCTGCCTAGTGATCCTGAGTACAACACGGTGGCAAGCA  
AGTTTAATCAGACCTGCTCACACTTCAGAATAGAGAAGATTGAGAGGATCCAGAATCCAGATCTCTGGAATAGCT  
ACCAGGCAAAGAAAAAACTATGGATGCCAAGAATGGCCAGACAATGAATGAGAAGCAACTCTTCCATGGGACAG  
ATGCCGGCTCCGTGCCACACGTCAATCGAAATGGCTTTAACCGCAGCTATGCCGGAAGAATGCTGTGGCATATG  
GAAAGGGAACCTATTTTGTGTCAATGCCAATTATTCTGCCAATGATACGTACTCCAGACCAGATGCAAAATGGGA  
GAAAGCATGTGTATTATGTGCGAGTACTTACTGGAATCTATACACATGGAAATCATTCAATTAATTGTGCCTCCTT  
CAAAGAACCCTCAAATCCTACTGACCTGTATGACACTGTACAGATAATGTGCACCATCCAAGTTTATTTGTGG  
CATTTTATGACTACCAAGCATACCCAGAGTACCTTATTACGTTTAGAAAATAACACTTTGGTATCCTTCCCACAA  
AATTATTCTCCATTTGTACATATCTAGTTGTAAACAAAGTTTTAGCTTTTTTTTTTAATTCCTCTTAACAGATTT  
TTCTAATATCCAAGGATCATTCTTTGTGCTGAAGTCAGTCTTTCTTCAGCTTCCCTTTCATAATGGAAATGAAC  
TTATTATCTTGAGAGCAAATAACTTGGAAAATTTAAATGAGATAATGCAGTTGCAACTGTGTGTCCACAAGTATG  
GACATCAAATCTGTGGGAAAAGAACAGGTTTGTATTTTCAGGAAGGAGAGAATAACAGTCTTATAGACAGAGGGC  
ACAGCTAAGCACAGCTGCCACTGCAGGAGACAGGCCCCATGTCAGGATGCCATAGTGCTGTGGGGAGCACAGTAT  
TACCCAGTGGGTAGGGCTTCTGTCTTCCCTGGGAGCAGGGATGGTATCTTAGTCAATTTTTTTCCCTTGAGATGA  
GGTCTGTGCCGTGATGTACAACGGATACTCCATAAATGTTTGACAAACCAACGAAGAATGAAAAAAGCCTAGTCA  
GACTCCCATCCAAAGTAGGAATCTCTTTAACATTCTTGACTCACTATCACTTTACCTCAAATTGAACAGATT  
CCATGACGGAACCTTCACTTTCACAACTAGCCAGTGACATGTGGGACAGCTCTGGCCAGGGCTCTGGGACTGCA  
GTGTACTTGCCTCTGCACGGTCCAGGAGCTGTGATGTGGCTGTGGTCTAGGGGAATCCTGCCTGCCCCATGGAG  
TTGCGCAGCACAAACCCTGGCTCCAATTGCCAGAAGGCTCTTTTAAATGCTGAACCAAATGTGCCTTTTTTTTTT  
TTTTTTTGTAGATGGAGTTTCACTCTTGTGCCCAGGCTGGAGTGCAATGGCGCGATCTCAGCTCACTGCAGCCAC  
TGCTCCCAGGTTCAAGTGATTCTCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCATGCGCTAACACACC  
CAGCTAATTTTGTATTTTGTAGTAGAGACGAGGTTTCTCCATGTTTCGACAGGCTGGTCTCGAACTCCACCTCAGC  
CTCCCAAACCTGCTGGGATTACAGGTGTGAGCCACCGTGACCAGCCAATGTGCCTTCTTATAGTGTCTACTCATTG  
GTCTTTGTCTGCCAGTGATAACAATGGGATAACGCCTGTACACATCTTCAATTGTGAAACCCTTCCCCTGTGC  
TGAGATTAAATGAAGTCTAAGATTATTAATAGTATATTTTCCCTTGACAGCCTAGCGTTTGATGATTTTAAAGCC  
TTATGTATAAATAAACCAAGGAAGTAAGCAGTCATATTGCTAATTTGCTAACTCCTATCTATTGAATGGTGAAG  
TTTTAAAAATTTCCCAGGTAAGTTAAGATTCAAACACCATCTATTGAGCACCTACATTGTGTGCCAGGTTAGTA  
AAATAGGTGCTTTTCATACACATTGTCTCAATTCTGTGAGGTCAGAATTATCTCTGCATTTGAACTTGAGGAAA  
CATGCTCAGAGTGCAAGAAGCTTCTTGCCTGAGATCACCTAGAAAGGAACCCTCAGAGCCGGCAACTGAATCTT  
GGTCCCTGTGATGTCAAGCCCATGTCTCTCCACTGCAGAACATGGCCTCTAGATTAATGCCACCGATTACAGGAA  
CACCTCCGACAGTCTTGAAATACCCCATGTTGCCTTGTTTTGTTTTTCTTCTGGCTTCTTCTATTACAGTCTC  
TTCAATTGGAAGCTCTGTAGGCCAAGGCCAGAGCTGATACTGACACGGAGCCAATGCAGATAGCACATCAGATGCT  
AGGGGTGCTGGGAGGATTAAGGGACTTAATCTGCTAGGAACACCTGTACTTGAAGTGGAGGAGGCTAGGGGGCC  
ACAGTTGCTGCTTCATTAACATAGAGGTTTTGGATTTTTTCTCTTGTGGTTTGTTTTTTAAGTGGATTGGCAGA



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**FIGURE 1221B**

CTCCTTGTTGCTTAAGAGTGGCTTCTAGGCAGGCCACTGGCATCTGAATTCATCATTGACAATAAATGTAAGAA  
ATTGGAATAAAAAAGAGAGACCTGCTGTTATTGCTTTTGTTCTCCAGTGATTTGATTAACTCAGGGCAAGGCTG  
AATATCAGAGTGTATCGCACTGAAGAATAATAATCCATTCAGTAATGTTATAGTTATCCTCAATCTAAATATGTC  
AACTGTCATTTTGCTACTTTTCAAATAAAATACTTGAAAAC TGTC

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**FIGURE 1222**

MKKREGTQLSSQQSVMSKSLASFLGFSKQSPQKKNHLVLEKKTESATFRVCGENVTCVEYAIISWLQDLIEKEQCPY  
TSEDECIKDFDEKEYQELNELQKKLNINISLDHKRPLIKVLGISRDVMQARDEIEAMIKRVRLAKEQESRADCIS  
EFIEWQYNDNNTSHCFNKMTNLKLEDARREKKKTVDVKINHRHYTVNLNTYTATDTKGHSLSVQRLTKSKVDIPA  
HWSDMKQQNFCVVELLPSDPEYNTVASKFNQTCSHFRIEKIERIQNPDLWNSYQAKKKTMDAKNGQTMNEKQLFH  
GTDAGSVPHVNRNGFNRSYAGKNAVAYGKGTYFAVNANYSANDTYSRPDANGRKHVYYVRVLTGIYTHGNHSLIV  
PPSKNPQNP TDLYDTVTDNVHHP SLFVAFYDYQAYPEYLITFRK

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**FIGURE 1223**

GAATTCGGGGGGCGCCGGAGTGGAGAAAGGAGCCAGCGGTGGGCAGCGCTGCTGGGATGGCGCGGGCCGGGCCGG  
CGTGGCTGCTGCTGGCAATCTGGGTGGTCCTGCCATCATGGCTGTCCTCTGCAAAGGTCTCCTCGCTCATTGAGA  
GAATCTCTGACCCCAAGGACTTGAAAAAACTGCTCAGAACCCGGAATAATGTACTGGTGCTTTACTCCAAATCTG  
AGGTGGCAGCTGAAAATCATCTCAGGTTACTGTCCACAGTGGCCAGGCGGTGAAAGGACAAGGGACCATCTGCT  
GGGTGGACTGTGGTGATGCAGAGAGTAGAAAATTGTGCAAGAAGATGAAAGTTGACCTGAGCCCGAAGGACAAAA  
AGGTTGAATTATTCCATTACCAGGATGGTGCAATTTCTACTGAATATAACCGAGCTGTGACATTTAAGTCCATAG  
TGGCCTTTTTGAAGGATCCAAAAGGGCCCCCACTGTGGGAGGAAGATCCTGGAGCCAAAGATGTTGTCCACCTTG  
ACAGTGAAAAGGACTTCAGACGGCTCCTGAAGAAGGAAGAGAAGCCGCTCCTGATCATGTTTTATGCCCCCTGGT  
GCAGCATGTGCAAGAGGATGATGCCGCATTTCCAGAAGGCTGCGACTCAGCTGCGAGGCCACGCCGTGCTGGCCG  
GGATGAATGTCTACTCCTCTGAATTTGAAAACATCAAGGAGGAGTACAGCGTGCGCGGCTTCCCCACCATCTGCT  
ATTTTGAGAAAGGACGGTTCTTGTTCCAGTATGACAACTATGGGTCCACAGCTGAGGACATTGTGGAGTGGCTGA  
AGAATCCGCAGCCGCCACAGCCCCAGGTCCCTGAGACTCCCTGGGCAGATGAGGGCGGCTCCGTTTATCACCTGA  
CCGATGAAGACTTTGACCAGTTTGTGAAGGAACACTCCTCTGTCTCGTCATGTTCCACGCCCCATGGTGTGGCC  
ACTGTAAGAAAATGAAGCCGGAGTTTGAGAAGGCAGCAGAAGCCCTCCATGGAGAAGCGGATAGCTCTGGTGTCC  
TTGCAGCTGTGATGCCACTGTCAACAAGGCCCTGGCAGAAAGATTCCACATCTCAGAGTTTCTACGTTGAAGT  
ATTTTAAGAATGGAGAGAAATACGCAGTGCCTGTGCTCAGGACAAAGAAGAAGTTTCTCGAGTGGATGCAAAACC  
CTGAGGCCCCCCCCGCCCCAGAGCCACGTGGGAAGAGCAGCAGACAAGCGTGTTGCACCTGGTGGGGGACAACT  
TCCGGGAGACCCTGAAGAAGAAGAAACACACCTTGGTTCATGTTCTACGCCCCCTGGTGCCACACTGTAAGAAGG  
TCATTCCGCACTTTACTGCTACTGCTGATGCCTTCAAAGATGACCGAAAGATTGCCTGTGCCGCTGTTGACTGTG  
TCAAAGACAAGAACCAAGACCTGTGCCAGCAGGAGGCGGTCAAGGGCTACCCCACTTTCCACTACTACCACTATG  
GGAAGTTCGCAGAAAAGTATGACAGCGACCGCACAGAATTGGGATTTACCAATTATATTGAGCCCTCCGGGAGG  
GAGACCATGAAAGACTAGGGAAAAAGAAGGAAGAGTTATTAATTTCCTGCCTCAGAAAAAGCTTTTCCATTACACTG  
TGAATGATACCTGTTTTGTTGTTTCTGAATTTCCCCCGAATTC

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**FIGURE 1224**

MARAGPAWLLLAIWVVLPSWLSSAKVSSLIERISDPKDLKKLLRTRNNVLVLYSKSEVAAENHLRLLSTVAQAVK  
GQGTICWVDCGDAESRKLCCKMKVDLSPKDKKVELFHYQDGAFTTEYNRAVTFKSIVAFKDPKGPPLWEEDPGA  
KDVVHLDSEKDFRRLKKEEKPLLIMFYAPWCSMCKRMPHFQKAATQLRGHAVLAGMNVYSSEFENIKEEYSVR  
GFPTICYFEKGRFLFQYDNYGSTAEDIVEWLKNPQPPQPQVPETPWADEGGSVYHLTDEDQFVKEHSSVLVMF  
HAPWCGHCKKMKPEFEKAAEALHGEADSSGVLAAVDATVNKALAERFHISEFPTLKYFKNGEKYAVPVLRTKKKF  
LEWMQNPEAPPPPEPTWEEQQTSLHLVGDNFRETLLKKKKHTLVMFYAPWCPHCKKVI PHFTATADAFKDDRKIA  
CAAVDCVKDKNQDLCQQEAVKGYPTFHYHYHGKFAEKYDSDRTELGFTNYIRALREGDHERLGKKKEEL

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**FIGURE 1225**

CTCAGACTGCTGTGCTAGCAATCAGTGAGACTCCGTGGGCGTAGGACCCTCTGAGCCAGGTGCGGGATATAATCT  
TGTGGTGCGCCGTTTTTTAAGCCGGTCCGAAAAGCGCAATATTCGGGTGGGAGTGACCCGATTTCCAGGGCTGT  
GACCATCTATGACAAGCCGGCATCTTTCTTTAAAGAGACACCTCTGGACCTGCTGCACCGGCTCTTCATGAAGCT  
GGGTGGCACTCACTCTCTGTTCAGGGCCTGCTCAGAACCTGAGGACGCAGCCATGGAGCGGTTCGGCCTTCATGGA  
GCTGGATGCTGGGAGCAGGCTGGTGATGCATCTCCGCGAGTGGCCAGCCCTGCTGGTCAGCAGCACGGGCTGGAC  
AGAGTTTGAACAACTTACTCTTGATGGACACAACCTTCCTTCTCTTGTCTGTGTGATAACAGGGTCGGTGGACCT  
GGGTGCTGTCTGCACATGTCCTCCAGTGGCCTGGACCTGCCCCATGAAGGTGGTGGACATGTTTCGGGTGCTGTTT  
GCCTGTGTGTGCCGTGAACCTTCAAGTGTTCACATGAGCTGGTGAAACATGAAGAAAATGGCCTGGTCTTTGAGGA  
CTCAGAGGAACTGGCAGCTCTGCAGATGCTTTTCTCAAACTTTCTGATCCTGCAGGCAAGCTAAACCAGTTTTG  
GAAGAACCTGCGGGAGTCGCAGCAGCTCCGATGGGATGAGAGCTGGGTGCAGACTGTGCTCCCTTTGGTTATGGA  
CATACAACTCCTGGGCCAGAGGCTAAAACCCCGGGACCCCTGCTGTCTTCCCGCAGCTTCTTCTCGGAGTCTCA  
GGGCAAACCCCTTTTGAGCAGCGCCTCCAGTGGCCAGAAGCTGAAATGACGGCAGTGGTGCCGCCTGGTGAATGA  
ATTGGTTCTGTGACCCGG

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**FIGURE 1226**

MKLGGTHSPFRACSEPEDAAMERSAFMELDAGSRLVMHLREWPALLVSSTGWTEFEQLTLDGHNLP  
SLVCVITGS  
VDLGVCLHMSSSGLDLPKVVDMFGCCLPVCVAVNFKCLHELVKHEENGLVFEDSEELAALQMLF  
SNFPDPAGKLN  
QFWKNLRESQQLRWDESWVQTVLPLVMDIQLLGQRLKPRDPCCPSRSFFSESQGKPF

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**FIGURE 1227**

GCAGACACGTG**ATC**CGGGGGAGGGGGGGGGGGCGTGGCAGGAGCAAGCGTCTGCCGCGGTGGCCGGGTGCCGGTA  
AGGGTTTCCAGCGCCCCCGGCCTAGGTTTTGGAGGCGCGGGAATGCGTTCGTTGCTCAGTGTCCGACTTCCCCCT  
ATTCCCATCGGCCGAGGCTGTCACTTTACGCTCATAACCGTTTTTCTTTACTGCACTCGTGTCCGGAGGAAAGGG  
ACTTGCCTGGCACCCCCAGACCTCCCCGTCTCCGCTTCCACGTTTGGTACATCCTGCCTGAGGCAGGAAGCCGCA  
GCT**GA**GGGACGGCCTGTCGTACGGTGCGGATGGTGGTGGCCTGCGAGGCTCATTCTAGCAAGGAACAAGGCTTT  
CCCGCTTTGATTTTATAAATATTATGTTTACAAAGCTGTAATATATAGAAATTGATAAGACGTGTCCCTGTCCCT  
GGAAACGCAGGCACCGCGTGTGGAAAGACATTCATCTGGGCTGTTTGACAGACTCCCCAGTTGGTGCCATGCT  
CTGTGCTTAGGGAACCTGTGAGACCCCTGGAGGGGTGGGTACCGGGACCGCACTCAGCCTGGGGTTTGGAGGCGGC  
CTCCTATAGGAAGCGACCTGGGACCTAAGATTTTACTGACTGTGGGTTCACTGGAATAAAAAGGAAGAAACA  
AAGAGCATTGCAGGCATCGGGACTGTACATTTGACAAGATCAAAGCTGCAGGAAAATGGACAGTGAGGTTTCTAGA  
GAGATGGAAGGATCTTGATTTGATTGATGATGCTTGGCGAGAAGACAAGCTGCCTTATGAGGATGTCGCAATAC  
CACTGAATGAGCTTCCTGAACCTGAACAAGACAATGGTGGCACCACAGAATCTGTCAAAGAACAAGAAATGAAGT  
GGACAGACTTAGCCTTACAGTACCTCCATGAGAATGTTCCCCCATTTGGAACTGACGCTTGGCTCCTTTCTTGT  
GGATGGATTTTCTCAAAGTACACAGATAAAGCATGGTTTGTTCAGTCTCCAAATTCAAACCTTTGAGTAATAAA  
TCAGCACTCAAAAATGTACACCCATTTAGTTTGTGGTAGCAAAGTGCAATGCGAAATTGAATGAGAACTGAGAT  
TTCTCAGTAATGGTGAATATTTGCTCTTTAAACCTAAAACCTTTCATTGAGTAGCTTATATTTGAACATGATTG  
GTTAAACATTTGCCTCTACCTCTGATTTTGCTTTGCTGTCAAAGTTTAAACACCTTCCAACCTTATGTGTGTCC  
TGTAACACAGGTGATTGAACGTATGAGAGGGAAAGGCAAAGAAAAGGAAGCCAGACACTAGGAGAATTATTAAC  
TTCTCATACTTCCCCACATTGAGAAGCATTTCGGAGTGATTTAGCCTGTAGATGTTGTGATATGCAAATATCCCA  
TTCCCTGGTTACTGGCATTCTAAGATTCTTCATGGTATTTTCAAACCTTTGGATAAATTTACAGATTAGAAAGAT  
ATCTGACAGTAAATCTCTGTTCTCCTTACAAATTCCTTTTGTGCTGCTGGAAAGGATCTTTGGCTAGGTGGATGA  
CTAGTTTTATTCAAAGCCTTTTCTCAAAGCCCTTTTCAAGTTACAACCACCCCACTATGGAATCAGTATTTAGTTAT  
ACATTTGTATAAGAACCTGTATTTTGA AAAACACATTCATGTATATTTATTCCTGGAATTATTTGCCTGTAAAC  
AGTGTCTTTCATGTTCTCTCCCCAGATTGTAACTCTGTAAAGAGCTGCTTGTATCTGTATCCCTTGTGAAACT  
CTGAAAACACTGAATAACTAAAATCTCTTCTCATCCTTTT

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**FIGURE 1228**

MRGRGGGRGRSKRLPRWPGAGKGFQRPRPRFWRRGNAFVAQCRTSPYSHRPRLSLYAHNRFSLLHSCREERDLRG  
TPRPPRLRFHVWYILPEAGSRS



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**FIGURE 1229**

AGTGGCGGAGAGGATCGTGGTACTGCTATGGCGGAATCATCGGAATCCTTCACCATGGCATCCAGCCCCGGCCAG  
CGTCGGCGAGGCAATGATCCTCTCACCTCCAGCCCTGGCCGAAGCTCCCGCGTACTGATGCCCTCACCTCCAGC  
CCTGGCCGTGACCTTCCACCATTGAGGATGAGTCCGAGGGGCTCCTAGGCACAGAGGGGGCCCTGGAGGAAGAA  
GAGGATGGAGAGGAGCTCATTGGAGATGGCATGGAAGGGACTACCGCGCCATCCCAGAGCTGGACGCCTATGAG  
GCCGAGGGACTGGCTCTGGATGATGAGGACGTAGAGGAGCTGACGGCCAGTCAGAGGGAGGCAGAGAGCGGGCC  
ATGCGGCAGCGTGACCGGGAGGCTGGCCGGGGCCTGGGCCGCATGCGCCGTGGGCTCCTGTATGACAGCGATGAG  
GAGGACGAGGAGCGCCCTGCCCGCAAGCGCCGCCAGGTGGAGCGGGCCACGGAGGACGGCGAGGAGGACGAGGAG  
ATGATTGAGAGCATCGAGAACCTGGAGGATCTCAAAGGCCACTCTGTGCGGAGTGGGTGAGCATGGCGGGCCCC  
CGGCTGGAGATCCACCACCGCTTCAAGAACTTCTGCGCACTCACGTGACAGCCACGGCCACAACGTCTTCAAG  
GAGCGCATCAGCGACATGTGCAAAGAGAACCCTGAGAGCCTGGTGGTGAACATGAGGACTTGGCAGCCAGGGAG  
CACGTGCTGGCCTACTTCTGCGCTGAGGCACCGCGGAGCTGCTGCAGATCTTTGATGAGGCTGCCCTGGAGGTG  
GTACTGGCCATGTACCCCAAGTACGACCGCATACCAACCACATCCATGTCCGCATCTCCACCTGCCTCTGGTG  
GAGGAGCTGCGCTCGCTGAGGCAGCTGCATCTGAACCAGCTGATCCGCACCAGTGGGGTGGTGACCAGCTGCACT  
GGCGTCTGCCCCAGCTCAGCATGGTCAAGTACAACCTGCAACAAGTGCAATTTCTGCTCTGGGTCTTTCTGCCAG  
TCCCAGAACCAGGAGGTGAACCAGGCTCCTGTCTGAGTGCCAGTCCGGCCGGCCCCCTTTGAGGTCAACATGGAG  
GAGACCATCTATCAGAACTACCAGCGTATCCGAATCCAGGAGAGTCCAGGCAAAGTGGCGGCTGGCCGGCTGCCC  
CGCTCCAAGGACGCCATTCTCTCGCAGATCTGGTGGACAGCTGCAAGCCAGGAGACGAGATAGAGCTGACTGGC  
ATCTATCACAACAATATGATGGCTCCCTCAACACTGCCAATGGCTTCCCTGTCTTTGCCACTGTCATCCTAGCC  
AACCACGTGGCCAAGAAGGACAACAAGTTGCTGTAGGGGAAGTACCAGTGAAGATGTGAAGATGATCACTAGC  
CTCTCCAAGGATCAGCAGATCGGAGAGAAGATCTTTGCCAGCATTGCTCCTTCCATCTATGGTCATGAAGACATC  
AAGAGAGGCTGGCTCTGGCCCTGTTGCGAGGGGAGCCCCAAAAACCCAGGTGGCAAGCACAAGGTACGTGGTGAT  
ATCAACGTGCTCTTGTGCGGAGACCCTGGCACAGCGAAAGTCGCAGTTTCTCAAGTATATTGAGAAAGTGTCCAGC  
CGAGCCATCTTACCACCTGGCCAGGGGGCGTGGCTGTGGGCCCTCACGGCGTATGTCCAGCGGCACCCTGTGAGC  
AGGGAGTGGACCTTGGAGGCTGGGGCCCTGGTTCTGGCTGACCGAGGAGTGTGTCTCATTGATGAATTTGACAAG  
ATGAATGACCAGGACAGAACCAGCATCCATGAGGCCATGGAGCAACAGAGCATCTCCATCTCGAAGGCTGGCATC  
GTCACCTCCCTGCAGGCTCGCTGCACGGTCAATTGCTGCCGCCAACCCCATAGGAGGGCGCTACGACCCCTCGCTG  
ACTTTCTCTGAGAACGTGGACCTCACAGAGCCCATCATCTCACGCTTTGACATCCTGTGTGTGGTGAGGGACACC  
GTGGACCCAGTCCAGGACGAGATGCTGGCCCGCTTCTGTGGTGGGCGAGCCACGTGAGACACCACCCAGCAACAAG  
GAGGAGGAGGGGCTGGCCAATGGCAGCGCTGCTGAGCCCCGCATGCCAACACGTATGGCGTGGAGCCCCCTGCC  
CAGGAGGTCTGAAGAAGTACATCATCTACGCCAAGGAGAGGGTCCACCCGAAGCTCAACCAGATGGACCAGGAC  
AAGGTGGCCAAGATGTACAGTGACCTGAGGAAAGAATCTATGGCGACAGGCAGCATCCCCATTACGGTGCGGCAC  
ATCGAGTCCATGATCCGCATGGCGGAGGCCCCACGCGCGCATCCATCTGCGGGACTATGTGATCGAAGACGACGTC  
AACATGGCCATCCGCGTGATGCTGGAGAGCTTCATAGACACACAGAAGTTCAGCGTCATGCGCAGCATGCGCAAG  
ACTTTTGGCCGCTACCTTTTATTCCGGCGTGACAACAATGAGCTGTTGCTCTTCATACTGAAGCAGTTAGTGGCA  
GAGCAGGTGACATATCAGCGCAACCCTTTGGGGCCCAGCAGGACACTATTGAGGTCCCTGAGAAGGACTTGGTG  
GATAAGGCTCGTCAGATCAACATCCACAACCTCTCTGCATTTTATGACAGTGAGCTCTTCAGGATGAACAAGTTC  
AGCCACGACCTGAAAAGGAAAATGATCCTGCAGCAGTTCTGAGGGCCCTATGCCATCCATAAGGATTCTTTGGGAT  
TCTGGTTTGGGGTGGTCAGTGCCCTCTGTGCTTTATGGACACAAAACCAGAGCACTTGATGAACTCGGGGTACTA  
GGGTCAGGGCTTATAGCAGGATGTCTGGCTGCACCTGGCATGACTGTTTGTCTTCCAAGCCTGCTTTGTGCTTC  
TCACCTTTGGGTGGGATGCCTTGCCAGTGTGTCTTACTTGGTTGCTGAACATCTTGCCACCTCCGAGTGCTTTGT  
CTCCACTCAGTACCTTGGATCAGAGCTGCTGAGTTCAGGATGCCTGCGTGTGGTTTAGGTGTTAGCCTTCTTACA  
TGGATGTCAGGAGAGCTGCTGCCCTCTTGGCGTGAGTTGCGTATTCAGGCTGCTTTTGTGCTTTTGGCCAGAGA  
GCTGGTTGAAGATGTTTGTAAATCGTTTTTCACTCTCCTGCAGGTTTCTGTGCCCTGTGGTGGAGAGGGCACGAC  
AGTGCCAGCGCAGCGTTCTGGGCTCCTCAGTCGCAGGGGTGGGATGTGAGTCATGCGGATTATCCACTCGCCACA  
GTTATCAGCTGCCATTGCTCCCTGTCTGTTTCCCCACTCTCTTATTTGTGCATTGCGTTTGGTTTCTGTAGTTTT  
AATTTTTAATAAAGTTGAATAAAATAT

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**FIGURE 1230**

MAESSESFTMASSPAQRRRGNDPLTSSPGRSSRRTDALTSSPGRDLPPFEDESEGLLGTEGPLEEEEDGEELIGD  
GMERDYRAIPELDAYEAEGLALDDEDVEELTASQREAAERAMRQORDREAGRGLGRMRRLLYDSDEEDEER PARK  
RRQVERATEDGEEDEEMIESIENLEDLKGHSVREWVSMAGPRLEIHHRFKNFLRTHVDSHGHNVFKERISDMCKE  
NRESLVVNYEDLAAREHVLAYFLPEAPAEELLQIFDEAALEVVLAMYPKYDRITNHIHVRI SHLPLVEELRSLRQL  
HLNQLIRTSGVVTSTCTGVLPQLSMVKYCNKCNFVLGPFQSQSQEQEVKPGSCPECQSAGPFVNMETIYQNYQR  
IRIQESPGKVAAGRLPRSKDAILLADLVDSCKPGDEIELTGIYHNNYDGS LNTANGFPVFATVILANHVAKKDNK  
VAVGELTDDEVKMITSLSKDQQIGEKIFASIAPSIYGHEDIKRLALALFGGEPKNPGGKHKVRGDINVLLCGDP  
GTAKSQFLKYIEKVSSRAIFTTGQGASAVGLTAYVQRHPVSREWTL EAGALVLADRGVCLIDEFDKMNDQDRTSI  
HEAMEQQSISISKAGIVTSLQARCTVIAAANPIGGRYDPSLTFSENVDLTEPIISRFDILCVVRD TVDPVQDEML  
ARFVVGSHVRHHP SNKEEEGLANGSAAEPAMPNTYGVEPLPQEV LKKYIIYAKERVHPKLNQMDQDKVAKMYSDL  
RKESMATGSIPITVRHIESMIRMAEAHARIHLRDYVIEDDVNMAIRVMLESFIDTQKFSVMRSMRKT FARYLSFR  
RDNNELLLFILKQLVAEQVTYQRNRFGAQQDTIEVPEKDLVDKARQINIHNL SAFYDSELF RMNKF SHDLKRKMI  
LQQF

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**FIGURE 1231**

ACCATGGGCCGGCTGCTGCGGGCCGCCGGCTGCCGCCGCTGCTTTCCGCCGCTGCTGCTTCTGCTGGTTGGGGGA  
GCGTTTCCTGGGTGCCTGTGTGGCTGGGTCTGATGAGCCTGGCCCAGAGGGCCTCACCTCCACCTCCCTGCTAGAC  
CTCCTGCTGCCCACTGGCTTGGAGCCACTGGACTCAGAGGAGCCTAGTGAGACCATGGGCCTGGGAGCTGGGCTG  
GGAGCCCCCTGGCTCAGGCTTCCCCAGCGAAGAGAATGAAGAGTCTCGGATTCTGCAGCCACCACAGTACTTCTGG  
GAAGAGGAGGAAGAGCTGAATGACTCAAGTCTGGACCTGGGACCCACTGCAGATTATGTTTTTCTGACTTAACT  
GAGAAGGCAGGTTCCATTGAAGACACCAGCCAGGCTCAAGAGCTGCCAAACCTCCCCCTCTCCCTTGCCCAAGATG  
AATCTGGTTGAGCCTCCCTGGCATATGCCTCCCAGAGAGGAGGAAGAAGAGGAAGAGGAAGAGGAGGAGAGGGAG  
AAGGAAGAGGTAGAGAAACAAGAGGAGGAGGAAGAGGAGGAGCTGCTCCCTGTGAATGGATCCCAAGAAGAAGCC  
AAGCCTCAGGTCCGTGACTTTTTCTCTCACCAGCAGCAGCCAGACCCCCAGGGGCCACCAAAAGCAGGCATGAAGAC  
TCCGGGGACCAGGCCTCATCAGGTGTGGAGGTGGAGAGCAGCATGGGGCCCAGCTTGCTGCTGCCTTCAGTCACC  
CCAATAACAGTGACTCCGGGGACCAGGACTCCACCAGCCAAGAGGCAGAGGCCACAGTGCTGCCAGCTGCAGGG  
CTTGGGGTAGAGTTCGAGGCTCCTCAGGAAGCAAGCGAGGAAGCCACTGCAGGAGCAGCTGGTTTGTCTGGCCAG  
CACGAGGAGGTGCCGGCCTTGCCCTTCATTCCCTCAAACCACAGCTCCAGTGCGGGCCGAGCACCCAGATGAAGAT  
CCCCCTGGCTCTAGAACCTCAGCCTCTTCCCCACTGGCCCCCTGGAGACATGGAACCTGACACCTTCTCTGCTACC  
TTGGGACAAGAAGATCTCAACCAGCAGCTCCTAGAAGGGCAGGCAGCTGAAGCTCAATCCAGGATACCCTGGGAT  
TCTACGCAGGTGATCTGCAAGGACTGGAGCAATCTGGCTGGGAAAACTACATCATTCTGAACATGACAGAGAAC  
ATAGACTGTGAGGTGTTCCGGCAGCACCGGGGGCCACAGCTCCTGGCCCTGGTGGAAGAGGTGCTGCCCCGCCAT  
GGCAGTGGCCACCATGGGGCCTGGCACATCTCTCTGAGCAAGCCCAGCGAGAAGGAGCAGCACCTTCTCATGACA  
CTGGTGGGCGAGCAGGGGTGGTGCCCACTCAAGATGTCCTTTCCATGCTGGGTGACATCCGCAGGAGCCTGGAG  
GAGATTGGCATCCAGAACTATTCCACAACCAGCAGCTGCCAGGCGCGGGCCAGCCAGGTGCGCAGCGACTACGGC  
ACGCTCTTCGTGGTGCTGGTGGTCATTGGGGCCATCTGCATCATCATCATTGCGCTTGGCCTGCTCTACAACCTGC  
TGGCAGCGCCGGCTGCCAAGCTCAAGCACGTGTGCGACGGCGAGGAGCTGCGCTTCGTGGAGAACGGCTGCCAC  
GACAACCCACGCTGGACGTGGCCAGCGACAGCCAGTCGGAGATGCAGGAGAAGCACCCACGCTGAACGGCGGC  
GGGGCCCTCAACGGCCCCGGGAGCTGGGGGGCGCTCATGGGGGGCAAGCGGGACCCCGAGGACTCGGACGTGTTT  
GAGGAGGACACGCACCTGTGAGCGCAGCCGAGGCGCAGGCCGAGTGGGCCGCCAGGACCAAGCGAGGTGGACCC  
GAAACGGACGGCCCCGAGCCCCGACCAGCCCCGCGCCTACCCGGGGCCGCCCCCGCGGCCTGGCCCTCGGCGCGGG  
CTCCTTCCCGCTTCCCCGACTTCACACGGCGGCTTCGGACCAACTCCCTCACTCCCGCCGAGGGGCAGGCCTC  
AAAGCCCCGCTTGGCCCCGCTTTCCCGCCCCTGAACCCCCGGCCCCGCGGGCGGCGGGCGGCGCTTCTGCGCCCC  
GGGACTCAATTAAACCCGCCCGGAGACCACGCCGGGCCAGCG

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**FIGURE 1232**

ATTTTACCTGATGCTATGAGAGAATCATATTGAAGATGAAATGTCTAATATATAATGTATATTTTAAAGCAGAGA  
CTATTTTGGTGGATAGGTGGGAGGGAGCAAGGGGAGTTTGAGGGAATCAGAGCTTGATGCTACTGTACAGAACTG  
GACAGGTTGGGCCGGCAGTGGTGGGGCCAGAGGGCTCTGTGCTCTAGGAGCTAAGCCAGCAGCCCCGAGAGGGG  
ACTTGGCTGGGCCTTTCCTATGGGCAAGGCCAGTGCTCTTCCTGCCCACCAGGGACCATGGAGCAGTGGCACCC  
TATGGGGCTATGATCCCTAGGCCTGGGCCTGGGCCTGCCTATGGGCCAGAGCTACCCTGGGAGTGTCTAGTGCTAG  
CAGCACAGCTACCTCTGGTGGCAGGAGAAGAGAGGGCCAGCACAGCAGCAGGCCAGGCCTTCCTGTCCAGGTCTG  
CATGGAGCACTCGGTGACCCAGAGCAGGGACTGGAGGCACCCCCAGCCCTGCCCCAGGCCACAGCAGGACAGGCC  
GGGACAGGCCTCACCCAAGGCCAAGGCTGGCATCAGCCAATCATTAGAGCTGAGGCCCTGGGCCTAGCCTGCCC  
TTCTCAGGTGCCAATACCACCCCAGCCCTGCCCTTGGCCTCACTTTTTCCCAGCAATAAGTGGGGTTTACCAACC  
GCCTCGGGAATACTTTCCCTTCTAAATGGGACTTGCTGTTACCTCAGGAGGCTCCTTAGTGCAAATATGACCT  
GGTCAGGGCTTTGCCACCGTTGAAGCCCTGCAGAAGGTGCAATGTAGGGGTTCTGGGGCCACAGAGGAGAGGCCA  
CTTCCCACCAGGACCCCCAACAATGAAGTCTAGGCCTCAGGGGCTCCCGCCCTTCTTCCTCCAGCAGCGGGAACTG  
CCACTGCTCTCCCAGGCCCTGTTCTGGAGGCTAACCTTGGTTCCTGGAGAGTGTGCCCTCCACCTCCCTCCAG  
CAGCCCTGATCACACCATGAGAGCCAGGAACGGGTCACCCTGCTGAAGATCACTCTGTGCCCTGGGGGAGGAGCC  
AAGCCCTCACCCACAAGGGGCAGGTGGGGGCTTGCTTGCTGACCCGGCCCAAGTCCCCACAGAGCACCTTCTGT  
AGCTCCAGCTTGTCTCCCTGG

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**FIGURE 1233**

MAQSYPGSVSASSTATSGGRRREAQHSSRPGLPVQVCMEHSVTQSRDWRHPQPCFRPQQDRPGQASPKAKAGISQ  
SFRAEALGLACPSQVPIPPQPCPWP HFFPAISGVHHPPREYFLLNGTCCYLRRLLSANMTLVRALPPLKPCRRC  
NVGVLGPQRRGHFFPGPPT

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**FIGURE 1234**

CTGCAGACGAGGCAGGCGGAAGAGGCGGGACTTCGCGGGTGACGTCATCGGGGCGCCGGAGGCCCGGGGCGCCTG  
GGAATTTGAAGCAAACAGGCAGCGCGCGACAATGGCGGTTCGCTCGTGACGCTTTGGGGCCATTGGTGACGGGTCT  
GTACGACGTGCAGGCTTTCAAGTTTGGGGACTTCGTGCTGAAGAGCGGGCTTCTCTCCCCATCTACATCGATCT  
GCGGGGCATCGTGTCTCGACCGCGTCTTCTGAGTCAGGTTGCAGATATTTTATTCCAACTGCCCAAATGCAGG  
CATCAGTTTTGACACCGTGTGTGGAGTGCCTTATACAGCTTTGCCATTGGCTACAGTTATCTGTTCAACCAATCA  
AATTCGAATGCTTATTAGAAGGAAAGAAACAAAGGATTATGGAACAAAGCGTCTTGTAGAAGGAACATTAAATCC  
AGGAGAAAACCTGTTTAAATCATTGAAGATGTTGTACCAAGTGGATCTAGTGTTTTGGAACTGTTGAGGTTCTTCA  
GAAGGAGGGCTTGAAGGTCACTGATGCCATAGTGCTGTTGGACAGAGAGCAGGGAGGCAAGGACAAGTTGCAGGC  
GCACGGGATCCGCTCCACTCAGTGTGTACATTGTCCAAAATGCTGGAGATTCTCGAGCAGCAGAAAAAGTTGA  
TGCTGAGACAGTTGGGAGAGTGAAGAGGTTTATTAGGAGAAATGTCCTTTGTGGCAGCGAATCATAATGGTTCTCC  
CCTTCTATAAAGGAAGCACCCAAAGAACTCAGCTTCGGTGACGTGCAGAGCTGCCAGGATCCACCCAGTTGC  
ATCGAAGCTTCTCAGGCTTATGCAAAAGAAGGAGACCAATCTGTGTCTATCTGCTGATGTTTCACTGGCCAGAGA  
GCTGTTGCAGCTAGCAGATGCTTTAGGACCTAGTATCTGCATGCTGAAGACTCATGTAGATATTTTGAATGATTT  
TACTCTGGATGTGATGAAGGAGTTGATAACTCTGGCAAATGCCATGAGTTCTTGATATTTGAAGACCGGAAGTT  
TGCAGATATAGGAAACACAGTGAAAAAGCAGTATGAAGGAGGTATCTTTAAATAGCTTCCTGGGCAGATCTAGT  
AAATGCTCACGTGGTGCCAGGCTCAGGAGTTGTGAAAGGCCTGCAAGAAGTGGGCCTGCCTTTGCATCGGGGGTG  
CCTCCTTATTGCGGAAATGAGCTCCACCGGCTCCCTGGCCACTGGGGACTACACTAGAGCAGCGGTTAGAATGGC  
TGAGGAGCACTCTGAATTTGTTGTTGGTTTTATTTCTGGCTCCCGAGTAAGCATGAAACCAGAATTTCTTCACTT  
GACTCCAGGAGTTCAGTTGGAAGCAGGAGGAGATAATCTTGCCAACAGTACAATAGCCCACAAGAAGTTATTGG  
CAAACGAGGTTCCGATATCATCATTGTAGGTCGTGGCATAATCTCAGCAGCTGATCGTCTGGAAGCAGCAGAGAT  
GTACAGAAAAGCTGCTTGGGAAGCGTATTTGAGTAGACTTGGTGTTTGAGTGCTTCAGATACATTTTTCAGATAC  
AATGTGAAGACATTGAAGATATGTGGTCCTCCTGAAAGTCACTGGCTGGAAATAATCCAATTATTCTGCTTGG  
TTCTTCCACAGGGCCTGTGTAAGAATGGGTTCTGGAGTTCTCATGGTCTTTAGGAAATATTGAGTAATTTGTAAT  
CACCGCATTGATACTATAATAAGTTCATTCTTAAGCTTGCTTTTTTTGAGACTGGTGTTTGTTAGACAGCCACAG  
TCCTGTCTGGGTTAGGGTCTTCCACATTTGAGGATCCTTCCATCTCTCCATGGGACTAGACTGCTTTGTTATTC  
TATTTATTTTTTAATTTTTTTTCGAGACAGGATCTCACTCTGTTGCCCAGGATGGAGTGCAGTGGTGAGATCACGG  
CTCATTGCAGCCTCGACCTCCAGGTGATCCTCCACCTCAGCTTCCAGATTAGCTGGTGCTATAGGCATGCACC  
ACCACGTCCATCTAAATTTCTTTATTATTTGTAGAGATGAGGTCTTGCCATGTTACCCAGGCTGGTCTCAACTCC  
TGGGCTCAAGCGATCCTCCTGCCTCAGTCTCTCAAAGTGCTGGGATTACAGGTGTGAGCCACTGTGCCAGCCTA  
ATTGCAGTAAGACAAAAATTCTAGGGCACCAAGAGGCTAAAGTCAGCACAGCTTTTCTTGTGTCCTGTATT

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**FIGURE 1235**

CTCGGGTCTGGTGGCTGCCGGCCCTGCGGCATCTCGCCATGGGGAGCACGGAGAGCAGCGAGGGCCGCAGGGTGT  
CCTTCGGAGTGGACGAGGAGGAGCGGGTCCGGGTGCTGCAGGGTGTCCGGCTGTCTGAAAACGTGGTGAACCGCA  
TGAAGGAGCCCAGCTCTCCACCCCTGCTCCACATCTTCTACCTTTGGCCTTCAAGATGGCAAATTGAGAGCCC  
CTCACAAAGAATCCACACTGCCCAGGTGCGGGGAGCAGTGGTGGCCAGCAGCCCTCAGGGATGAAGGAGGGTGTCA  
AGAGGTATGAACAGGAGCATGCTGCTATCCAGGATAAGCTCTTCCAGGTGGCAAAGAGGGAAAGAGAGGCTGCCA  
CCAAGCACTCCAAGGCATCCCTGCCCACGGGCGAAGGCAGCATCAGCCATGAGGAGCAGAAGTCAGTCCGGCTGG  
CCAGGGAGCTGGAGAGCAGAGAGGCAGAGCTAAGACGCCGTGACACCTTCTACAAGGAGCAGCTGGAGCGTATTG  
AGAGGAAGAATGCTGAGATGTATAAACTGTCTTCAGAGCAATTCCATGAGGCAGCCTCAAAGATGGAGAGCACAA  
TAAAGCCCCGCAGGGTGGAGCCCGTCTGCTCAGGGTTGCAGGCCCAGATTCTCCACTGCTACCGAGATCGCCCGC  
ATGAGGTGCTGCTGTGCTCGGACCTGGTCAAGGCATACCAGCGCTGCGTGAGCGCCGCCACAAGGGCTTGAGGAG  
CAGACATCATTCCCTGCCCTGGCAGTGACTTGGAGCCCTGAAGAAGGGACCAATCATGGGACCACAGCCACTGTG  
CCCTGCCGTTTCCTGCTGGGCCCCCTGCATATGCCCTGAGCCTGGGGCTGCCACGTGTTTAGGAAACAAAGTATG  
CGCTACTGTCTGAAAACAAATAAAGCAGATGCCTTTGTTTTAGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAA

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**FIGURE 1236**

MGSTESSEGRVVSFGVDEEERVRLQGVRLSENVVNRMKPSSPPPAPTSSTFGLQDGNLRAPHKESTLPRSGSS  
GGQQPSGMKEGVKRYEQEHAAIQDKLFQVAKREREAATKHSKASLPTGEGSISHEEQKSVRLARELESREAELRR  
RDTFYKEQLERIERKNAEMYKLSSEQFHEAASKMESTIKPRRVEPVCSGLQAQILHCYRDRPHEVLLCSDLVKAY  
QRCVSAAHKG



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**FIGURE 1237**

GAGAGTGGCCAGCGAGGGCAGCGTTCGCCGCCCTCAGGCCCCGTCCCGGCCCGCAGCCGCCTGCGTTTCGGTT  
TGTGAGCAGGCCCCGGCCGGGCCAGGAGCGAGAGCGAGACTCTGGAGCGGTGCGCCGCCAGTCGCCCCGGGCCGGG  
AAAGGCGGGCGATGCCCCCAACCGCCGCTCGGGCCATGTCCGAGGGGCGCGCTGTTGTGCGCCGGGGGCGCCG  
TGCCCGCTGTGCTCCCCGGGCCAGCCGCTCGTCCGAGGCCCCGCGAGGAGCTGCGCCGCCACCTCGTGGGCCT  
CATCGAGCGCAGCCGGGTGGTGATCTTCAGCAAGAGCTACTGTCCCCATAGTACTCGGGTGAAAGAACTCTTTTC  
TTCTTTGGGAGTCGAATGTAATGTCTTGGAACCTTGATCAAGTTGATGATGGGGCCAGGGTTCAAGAAGTGCTGTC  
AGAAATCACTAATCAGAAAACCTGTGCCAATATTTTCGTGAATAAAGTGATGTAGGTGGATGTGACCAAACCTTT  
CCAGGCATATCAGAGTGGTTTGTTACAGAAGCTCCTTCAGGAAGATTTGGCATATGATTATGATCTCATCATCAT  
CGGTGGTGGTTCTGGAGGCCTTTTCATGTGCGAAGGAAGCTGCCATTTTGGGAAAGAAAGTTATGGTGCTAGACTT  
TGTTGTCCCGTCACCTCAGGGCACATCCTGGGGTCTTGGTGGCACTTGTTGTAATGTAGGTTGTATTCTTAAGAA  
ATTGATGCATCAGGCTGCCCTTTTGGGGCAGGCATTATGTGACTCAAGGAAATTTGGCTGGGAATATAATCAACA  
AGTGAGGCACAACCTGGGAGACAATGACAAAAGCGATTGAGAACCACATCAGCTCTCTAACTGGGGCTACAGGTT  
GTCTCTGAGGGAAGGGCTGTGGCCTATGTCAATTCCTATGGAGAATTTGTTGAACATCATAAAATAAAGGCAAC  
CAATAAAAAAGGACAGGAGACTTATTATACTGCTGCACAGTTTGTATAGCAACGGGTGAAAGGCCACGGTATTT  
AGGAATCCAAGGAGATAAAGAATACTGTATTACTAGTGATGACCTTTTTCTCTGCCTTATTGCCCTGGCAAAAC  
ATTAGTGGTGGGTGCCCTCTTATGTTGCCCTGGAGTGTGACGGGTTTCTGGCTGGCTTTGGCCTAGATGTCACAGT  
TATGGTACGCTCAATCCTTCTCCGTGGCTTCGACCAAGAAATGGCAGAAAAAGTGGGTTCTTACATGGAGCAGCA  
TGGTGTGAAGTTCCTACGGAAATTCATACCTGTGATGGTTCAACAGTTGGAGAAAGGTTACCTGGAAAGCTGAA  
AGTGTGGCTAAATCCACTGAAGGAACAGAAACAATTGAAGGAGTCTATAACACAGTTTTGTTAGCTATTGGTCG  
TGACTCCTGTACAAGGAAATAGGCTTGGAGAAGATTGGTGTCAAAATTAATGAGAAGAGTGGAATAATACCTGT  
AAATGATGTGGAACAGACCAATGTGCCATATGTCTATGCTGTTGGTGATATTTTGGAGGATAAGCCAGAGCTCAC  
TCCTGTGCGCCATACAGTCAGGCAAGCTGCTAGCTCAGAGACTTTTTGGGGCCTCTTTAGAAAAGTGATATATAT  
TAATGTTCCGACTACAGTGTCTTACTCCTCTGGAGTATGGTTGCTGTGGATTATCTGAAGAGAAAGCTATTGAAGT  
ATATAAAAAAGAGAATCTAGAAATATATCATACTTTGTTCTGGCCTCTTGAATGGACAGTAGCTGGCAGAGAGAA  
CAACACTTGTATGCAAAGATAATCTGCAATAAATTCGACCATGATCGGGTGATAGGATTTTCATATTCTTGGACC  
AAACGCCGGTGAGGTTACCCAAGGATTTGCAGCTGCAATGAAATGTGGGCTCACAAAACAGCTACTTGATGACAC  
CATTGGAATTCACCCACATGTGGGGAGGTGTTACGACTTTGGAAATCACAAAGTCGTCAGGACTAGACATCAC  
TCAGAAAGGCTGCTGAGGCTAGGCCTGCTGCTGTTTAGTTCTCCTTGTCATATTCTCATTTCTCTCAAAGATAAG  
AATGCTCTCGGATAAAATGAGCCTGTGCTCATGACAGCTGCTCTGTTACTCAGGGACCAGTGACGGGCTGTCTTA  
CGACACTTAGATGAGAAAGTAGACAAGGAAAGAGGACAGCAGTGGGCATCTGCCTTGTGGTCTTGTGACAGCGA  
GAAGCAGTGGGACTGCTTCCCTGACGCTTAGCTTGGAGCCCCGTTATGAGGTGAGCCAAGGCTGACTCTCGCAA  
GCCAGGACTGAGCTTCCCTCGGAAAGACCTTTGAGTGGCACCATTACCTAAGTTAGCTTTTCTGGTCGCTATTG  
TTTTTATCCCCITTTGCTTTGTTGTTTCTGTGAAAATATATTTTCAGTTAAGAAATGCTATAAAGTAGTGGTTTC  
TAGTGCCTGGGCCTAGAATTCACACATGCTCACTGGTGAACAGTGTCTGTGGGCTGCTGTGGGCTGCATTTGGAT  
AGCTGTCTGCATTAGCAGGAAGCTGTACACACTGTGTAGGGTTAGTCATCTCTTTTCTTTTTTGGGCACATTTA  
ACCTACTGTCAAAACGCTGACTCATGCTTCACCCCTCACACTCACTACTTGGTGGTGATAACCTTGAAGCTATTCT  
CCCCAATTAATATCTCGAGACTGAGCAAAATATCTCATGTAAGATAAAAGTACTTGAATTGCTTTTTTCATGTT  
ATCTTAATAGTATTATTTCCAAAAGTTTTTAATACTGTATTATGTGAAATCTAACTAATTTATCTGTGAAATAAT  
TCCATCACAGTCTGTTTAATGATGATAAAGTTCCATAAATGAATACAGGT

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**FIGURE 1238A**

AGCGATCCGAGGCCCCGCCCCGCCCCGCCCCGCGCGCGCGCGCGCTTGCCGCGCGGGCTAGCACTGACGTGT  
CTCTCGGCGGAGCTGCTGTGCACTGGAACGCGCTGGGCGCGGGGACAGCTCGCCTCACGCGGAGCAGAGCTGAGC  
TGAAGCGGGACCCGGAGCCCCGAGCAGCCGCCCATCGCAATCAAATTTCTGGAAGTCATCAAGCCCTTCTGTGT  
CATCTGCCGGAATTCAGAAGCCAGAGAGGAAGATTCACTTTAAGGAGAAAGTGTGTGGACCGCTATCACCCCT  
CTTTATCTTCTAGTGTGCTGCCAGATTCCCTGTGTTGGGATCATGTCTTCAGATTACAGTACCCTTTCTATTG  
GATGAGAGTGATTCTAGCCTCTAACAGAGGCACATTGATGGAGCTAGGGATCTCTCTATTGTACAGTCTGGCCT  
TATAATGCAACTCTTGCTGGCGCCAAGATAATTGAAGTTGGTGACACCCCAAAGACCGAGCTCTCTTCAACGG  
AGCCCAAAGTTATTTGGCATGATCATTACTATCGGCCAGTCTATCGTGTATGTGATGACCGGGATGTATGGGG  
CCCTTCTGAAATGGGTGCTGGAATTTGCCTGCTAATCACCATTACAGTCTTTGTTGCTGGCTTAATTGTCCTACT  
TTTGATGAACTCTTGCAAAAAGGATATGGCCTTGGCTCTGGTATTCTCTCTTTCATTGCAACTAACATCTGTGA  
AACCATCGTATGGAAGGCATTACAGCCCCACTACTGTCAACACTGGCCGAGGAATGGAATTTGAAGGTGCTATCAT  
CGCACTTTTCCATCTGCTGGCCACACGCACAGACAAGGTCCGAGCCCTTCGGGAGGCGTTCTACCGCCAGAATCT  
TCCCAACCTCATGAATCTCATCGCCACCATCTTTGTCTTTGCAGTGGTCATCTATTTCCAGGGCTTCCGAGTGA  
CCTGCCAATCAAGTCGGCCCCGCTACCGTGGCCAGTACAACACCTATCCCATCAAGCTCTTCTATACGTCCAACAT  
CCCCATCATCCTGCAGTCTGCCCTGGTGTCCAACCTTTATGTCTCTCCCAAATGCTCTCAGCTCGCTTCAGTGG  
CAACTTGCTGGTCAGCCTGCTGGGCACCTGGTCGGACACGTCTTCTGGGGGCCAGCACGTGCTTATCCAGTTGG  
TGGCCTTTGCTATTACCTGTCCCTCCAGAATCTTTTGGCTCCGTGTTAGAAGACCCGGTCCATGCAGTTGTATA  
CATAGTGTTTCATGCTGGGCTCCTGTGCATTCTTCTCCAAAACGTGGATTGAGGTCTCAGGTTCCCTCTGCCAAAGA  
TGTTGCAAAGCAGCTGAAGGAGCAGCAGATGGTGATGAGAGGCCACCGAGAGACCTCCATGGTCCATGAACCTCAA  
CCGGTACATCCCCACAGCCGCGGCCCTTTGGTGGGCTGTGCATCGGGGCCCTCTCGGTCCCTGGCTGACTTCCTAGG  
CGCCATTGGGTCTGGAACCGGGATCCTGCTCGCAGTCACAATCATCTACCAGTACTTTGAGATCTTCGTTAAGGA  
GCAAAGCGAGGTTGGCAGCATGGGGGCCCTGCTCTTCTGAGCCCGTCTCCCGACAGGTTGAGGAAGCTGCTCCA  
GAAGCGCCTCGGAAGGGGAGCTCTCATCATGGCGCGTGTGCTGCGGCATATGGACTTTTAATAATGTTTTTGAA  
TTTCGTATTCTTTTCACTTGTGTAAAGTGCTAGACATTTTCCAATTTAAATTTTGTCTTTTATCCTGGCAC  
TGGCAAAAAGAAGCTGTGAAAGTGAAATTTTATTACGCCGACTGCCAGAGAAGTGGAATGGTATAGGATTGTCCC  
CAAGTGTCATGTAACCTTTTGTTTTAACTTTTGCACCTTCTCAGTGTGTGTATCGGGCTGCAGCCGTCTCACCTGT  
TTCCCCACAAAGGGAATTTCTCACTCTGGTTGGAAGCACAAACACTGAAATGTCTACGTTTCAATTTGGCAGTAG  
GGTGTGAAGCTGGGAGCAGATCATGTATTTCGCGGAGACGTGGGACCTTGCTGGCATGTCTCCTTACAATCAGG  
CGTGGGAATATCTGGCTTAGGACTGTTTCTCTAAGACACCATTGTTTTCCCTTATTTTAAAGTGATTTTTTT  
AAGGACAGAACTTCTTCCAAAAGAGAGGGATGGCTTTCCAGAAAGACACTCCTGGCCATCTGTGGATTGTCTGT  
GCACCTATTGGCTCTTCTAGCTGACTCTTCTGGTTGGGCTTAGAGTCTGCCTGTTTCTGCTAGCTCCGTGTTTAG  
TCCACTTGGGTCATCAGCTCTGCCAAGCTGAGCCTGGCCAAGCTAGGTGGACAGACCCTTGCAGTGATGTCCGTT  
TGTCCAGATTCTGCCAGTCATCACTGGACACGTCTCCTCGCAGCTGCCCTAGCAAGGGGAGACATTGTGGTAGCT  
ATCAGACATGGACAGAACTGACTTAGTGCTCACAAGCCCTACACCTTCTGGGCTGAAGATCACCCAGCTGTGT  
TCAGAATTTTCTTACTGTGCTTAGGACTGCACGCAAGTGGTAGTGAAGTCAGGTTTCGGGGTGATGGGCTGTGGTG  
GTCGTGACGAGAGAGAGGACAGCACAGGCTCAAGGTTGGTAGTGAAGTCAGGTTTCGGGGTGATGGGCTGTGGTG  
GTGTTGATCAGTTGCTCCAGTGTTTGAATAAGAAGACTCATGTTTATGTCTGGAATAAGTTCTGTTTGTGCTGA  
CAGGTGGCCTAGGTCTTGGAGATGAGCACCCCTCTCTCTGGCCTTTAGGGAGTCCCCTCTTAGGACAGGCACTGCC  
CAGCAGCAAGGGCAGCAGAGTTGGGTGCTAAGATCCTGAGGAGCTCGAGGTTTCGAGCTGGCTTTAGACATTGGT  
GGGACCAAGGATGTTTTGTCAGGATGCCCTGATCCTAAGAAGGGGGCCTGGGGGTGCGTGCAGCCTGTCTGGGGAGA  
CCCCACTCTGACAGTGGGCACACGGCAGCCTGCAAAGCACAGGGCCACCGCCACAGCCCGGCAGAGGGGCACACT  
CTGGAGACCTTGTGTCAGTGCTAGCCAGGAAACAGAGTGACCAAGGGACAAGAAGGGACTTGCTTAAAGCCACC  
CAGCAACTCAGCAGCAGAACCAAGATGGGCCCCAGGCTCCTCCATATGGCCCAGGGCTTACCACCCTATCACAG  
TGGCCTTGTCTAGACCCAGTCTTGCAGGGGAGAGGCTCTTGAGACCTGATGCCCTCCTACCCACATGGTTCTC  
CCACTGCCCTGTCTGCTCTGCTTACAGAGGGGCAGGGCCTCCCCAGCCACGCTTAGGAATGCTTGCCTCTG  
GCAGGCAGGCAGCTGTACCAAGCTGGTGGGCAGGGGGCTGGAAGGCACCAGGCCTCAGGAGGAGCCCCATAGTC  
CCGCTGCAGCCTGTAACCATCGGCTGGGCCCTGCAAGGCCACACTCACGCCCTGTGGGTGATGGTCACGGTGG  
GTGGGTGGGGCTGACCCAGCTTCCAGGGGACTGTCACTGTGGACGCCAAATGGCATAACTGAGATAAGGTGA

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**FIGURE 1238B**

ATAAGTGACAAATAAGCCAGTTTTTACAAGGTAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1239**

MAIKFLEVIKPFVCVILPEIQKPERKIQFKEKVLWTAITLFI FLVCCQIP LFGIMSSDSADPFYWMRVILASNRGT  
LMELGISPIVTSGLIMQLLAGAKIIEVGDTPKDRALFNQAQKLF GMIITIGQSIVYVMTGMYGDPSEMGAGICLL  
ITIQLFVAGLIVLLLDELLQKGYGLGSGISLFIATNICETIVWKA FSPTTVNTGRGMEFEGAIIALFHLLATRDT  
KVRALREAFYRQNLPLNLMNLIATIFVFAVVIYFQGFRVDLP IKSARYRGQYNTYPIKLFYTSNIP IILQSALVSN  
LYVISQMLSAREFSGNLLVSL LGTWSDTSSGGPARAYPVGGLCY YLSPPESFGSVLEDPVHAVVYIVFMLGSCAFF  
SKTWIEVSGSSAKDVAKQLKEQQMVMRGHRETSMVHEL NRYIPTAAAFGGLCIGALSVLADFLGAIGSGTGILLA  
VTIIYQYFEIFVKEQSEVGSMGALLF

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**FIGURE 1240**

ATGAAGATTGAGGAGGTGAAGAGCACTACGAAGACGCAGCGCATCGCCTCCCACAGCCACGTGAAAGGGCTGGGG  
CTGGACGAGAGCGGCTTGGCCAAGCAGGCGGCCTCAGGGCTTGTGGGCCAGGAGAACGCGCGAGAGGTGTGGCCA  
GTGGACCAGGGAGTTGGGGGCTGCAAGCAGGGCTGCTGCGGCGAGAGAGCTGCTGAAGTCGGGCCTGCAGGTGCT  
CCAGGTCAGCGGGCGACTTTGGCCGCTGCAGAGACCGAGATACGCGGGGTAACAGCCCGTTCCGGAGCCGGTTCAT  
CAGGCGCCAAGCCCCGCTGGGCTCCTCGCAGCCGCGGGACCTTTCTCCGCCCTTCCCGAGGCTGAGTTTCCTGAA  
CGGGAAGCTGCCGGCCCGCGGGGAGCCGGGAGCAGCCAGGGCGTGAGGACGTGGGTTCCCGTCACCCCCGGCTT  
GGAACAGCAGCGCCGCAACAACCGCTGGCGTTTCATCGAGCCTCTCAGCAGCCCTGCGAGGCGATCCCGGGGAGAA  
TCCCACGCCACAGCCGAGGAACTGAGGCAGGCAGGGTGACACACAGCCCAGTAGTGCGGGGCGGGCGCCAGGC  
TGCCACCGCGCTGAGGACCGGCCCTCTGCCAGCCGGGAGGCGTGGGGCAGGACAGCCGCGCTCTCGCCAGGGCC  
CAGAGCCCCACTTTGCCAAGGAGCTGTGCTGGAGCGGTGACTTTGTTTCAGGGCCGAGAACCGGAGGAGGAGGCC  
AGACTTGCTGCTGGGCAGCTGGCACATGGGACATGGGGTGTTATGACTCCAGCATTTATGGAGCGCCTGCTGTGT  
GCTCTGCAGGTGAGCAATGTGAGGCTCAGAGAAGAGAAACAGAAAGCCCGGAGGCTTGAGTGGGTGAGACACCCA  
TCAGGAGCTTGGCATGAGTATGACAGCTCCTTGACGCAAAGTCCAGGGGCGATGAGTGCTGGGGCCATTGCAGGC  
ACCAGGACCCAAGCCTAG

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**FIGURE 1241**

MVDRLRPVKFPLLMGQPEAQGGPGPAGAPGQRATLAAAETEIRGVTARSGAGHQAPSPAGLLAAAGPFSALPEAE  
FPEREAAGPRGSREQPGREDVGSRHPRLGTAAPQQPLAFIEPLSSPARRSRGESHATAEETEAGRVTHSPVVAGG  
RPGCHRAEDRPLCQPGGVGQDSRALARAQSPTLPRSCRWSGDFVQGREPEEEEARLAAGQLAHGTWGVMTPAFMER  
LLCALQVSNVRLREEKQKARRLEWVRHPSGAWHEYDSSLTQSPGGMSAGAIAGTRTQA

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**FIGURE 1242**

AGGTAAAGGGAGAAGATGAGGAAGAGAACAATTTGGAAGTACGTGAAACCAAATTAAGGGTAAAAGTGGGAGAT  
TCTTCACAGTCAAGCTCCCAGTTGCTCTTGATCCTGGGGCCAAGATTTTCAGTCATTGTGGAACAGTCTACACCC  
ATGTGCTTCATCCATATCCAACCCAGATCACCCAGTCAGAGAAACAGTTTGTGGTGTGTTGAGGGGAACCATTATT  
TCTACTCTCCCTATCCAACGAAGACACAAACCATGCGTGTGAAGCTTGCCTCTCGAAATGTGGAGAGCTACACCA  
AGCTGGGGGAACCCACGCGCTCTGAGGACCTACTGGATTATGGGCCCTTTCAGAGATGTGCCTGCCTATAGTCAGG  
ATACTTTTAAAGTACATTATGAGAACAACAGCCCTTTCTTGACCATCACCAGCATGACCCGAGTCATTGAAGTCT  
CTCACTGGGGTAATATTGCTGTGGAAGAAAATGTGGACTTAAAGCACACAGGAGCTGTGCTTAAGGGGCCCTTTCT  
CACGCTATGATTACCAGAGACAGCCAGATAGTGGAATATCCTCCATCCGTTCTTTTAAGACCATCCTTCCTGCTG  
CTGCCCAGGATGTTTATTACCGGGATGAGATTGGCAATGTTTCTACCAGCCACCTCCTTATTTTGGATGACTCTG  
TAGAGATGGAAATCCGGCCTCGCTTCCCTCTCTTTGGCGGGTGAAGACCCATTACATCGTTGGCTACAACCTCC  
CAAGCTATGAGTACCTCTATAATTTGGGTGACCAGTATGCACTGAAGATGAGGTTTGTGGACCATGTGTTTGATG  
AACAAGTGATAGATTCTCTGACTGTGAAGATCATCCTGCCTGAAGGAGCCAAGAACATTGAAATTGATAGTCCCT  
ATGAAATCAGCCGTGCCCCAGATGAGCTGCACTACACCTATCTGGATACATTTGGCCGCCCTGTGATTGTTGCCT  
ACAAGAAAAATCTGGTAGAACAGCACATTTCAGGACATTGTGGTCCACTACACGTTCAACAAGGTGCTCATGCTGC  
AGGAGCCCCTGCTGGTGGTGGCGGCCTTCTACATCCTGTCTTTCACCGTTATCATCTATGTTGCGCTGGACTTCT  
CCATCACCAAGGATCCAGCCGCAGAAGCCAGGATGAAGGTAGCCTGCATCACAGAGCAGGTCTTGACCCTGGTCA  
ACAAGAGAATAGGCCTTTACCGTCACTTTGACGAGACCGTCAATAGGTACAAGCAATCCCGGGACATCTCCACCC  
TCAACAGTGGCAAGAAGAGCCTGGAGACTGAACACAAGGCCTTGACCAGTGAGATTGCACTGCTGCAGTCCAGGC  
TGAAGACAGAGGGCTCTGATCTGTGCGACAGAGTGAGCGAAATGCAGAAGCTGGATGCACAGGTCAAGGAGCTGG  
TGCTGAAGTCGGCGGTGGAGGCTGAGCGCCTGGTGGCTGGCAAGCTCAAGAAAGACACGTACATTGAGAATGAGA  
AGCTCATCTCAGGAAAGCGCCAGGAGCTGGTCACCAAGATCGACCACATCCTGGATGCCCTGTAGCCCCTGCCCCG  
CATCCTCCAGGGGGCCCAGGTGCCTGCACTTTGCTGTGGCAGGCAGATTGGGTGGTAGTGGGAGGTTGTGCATG  
GAGGCCAGTGAAAGCTGACATCTGTAAAAGGCCTTCAAGGAAGAGAAACCAGGCCCTGCGTCAGGCAGTGTGAGT  
TTGCCGTTTGTCTTAACCTTTCTTTTTTTTTTTTTTTTTTAAAAAAGAAAACCTTTAAAAAACTCCCATTA AAAACA  
AAACATCTTTGTGTTTTGAACAAAGGAATTTTCAATATTTGATTGGTATTCTGTTCTGAAGTCTAGGATATTTTT  
CAGCCTATAAAGCCCCCTGTTTTATGCCCTTCTAATTCTGATGTTTGGGTATTGTGTGAGTGCATGTGTTTTTTT  
TTTTTTTTTTTTTAAAGCGTGTGTGAACAAATGGAAATAAAGCAGGGACTGTG

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**FIGURE 1243**

CTGCTCTTCCCGGTCATGGAGGCGCCAGCCGCCGGCTTGTTTCTGCTCCTGTTGCTTGGGACTTGGGCCCCGGCG  
CCGGGCAGCGCCTCCTCCGAGGCACCGCCGCTGATCAATGAGGACGTGAAGCGCACAGTGAGACCTAAGCAGCCAC  
CTGGCTAAGGTGACGGCCGAGGTGGTCCTGGCGCACCTGGGCGGCGGCTCCACGTCCCCGAGCTACCTCTTTCTCTG  
CTGGCTTTGGAGCCTGAGCTCGAGGCCCCGGCTGGCGCACCTGGGCGTGCAGGTAAAGGGAGAAGATGAGGAAGAG  
AACAATTTGGAAGTACGTGAAACCAAATTAAGGGTAAAGTGGGAGATTCTTCACAGTCAAGCTCCCAGTTGCT  
CTTGATCCTGGGGCCAAGATTTAGTTCATTGTGGAACAGTCTACACCCATGTGCTTCATCCGTATCCAACCCAG  
ATCACCCAGTCAGAGAAACAGTTTGTGGTGTGTTGAGGGGAACATTATTTCTACTCTCCCTATCCAACGAAGACA  
CAAACCATGCGTGTGAAGCTTGCCCTCTCGAAATGTGGAGAGCTACACCAAGCTGGGGAACCCACGCGCTCTGAG  
GACCTACTGGATTATGGGCCTTTTCAGAGATGTGCCTGCCTATAGTCAGGATACTTTTAAAGTACATTATGAGAAC  
AACAGCCCTTTCTGACCATCACCAGCATGACCCGAGTCATTGAAGTCTCTCACTGGGGTAATATTGCTGTGGAA  
GAAAATGTGGACTTAAAGCACACAGGAGCTGTGCTTAAGGGGCCCTTTCTCACGCTATGATTACCAGAGACAGCCA  
GATAGTGGAAATATCCTCCATCCGTTCTTTTAAGACCATCCTTCCTGCTGCTGCCAGGATGTTTATTACCGGGAT  
GAGATTGGCAATGTTTCTACCAGCCACCTCCTTATTTTGGATGACTCTGTAGAGATGGAAATCCGGCCTCGCTTC  
CCTCTCTTTGGCGGGTGAAGACCCATTACATCGTTGGCTACAACCTCCCAAGCTATGAGTACCTCTATAATTTG  
GGTGACCAGTATGCACTGAAGATGAGGTTTGTGGACCATGTGTTTGATGAACAAGTGATAGATTCTCTGACTGTG  
AAGATCATCCTGCCTGAAGGAGCCAAGAACATTGAAATTGATAGTCCCTATGAAATCAGCCGTGCCCCAGATGAG  
CTGCACTACACCTATCTGGACACATTTGGCCGCCCTGTGATTGTTGCCTACAAGAAAAATCTGGTAGAACAGCAC  
ATTCAGGACATTGTGGTCCACTACACGTTCAACAAGGTGCTCATGCTGCAGGAGCCCCTGCTGGTGGTGGCGGCC  
TTCTACATCCTGTTCTTACCCTTATCATCTATGTTCCGGCTGGACTTCTCCATCACCAAGGATCCAGCCGCAGAA  
GCCAGGATGAAGGTAGCCTGCATCACAGAGCAGGTCTTGACCCCTGGTCAACAAGAGAATAGGCCTTTACCGTCAC  
TTTGACGAGACCGTCAATAGGTACAAGCAATCCCGGGACATCTCCACCCTCAACAGTGGCAAGAAGAGCCTGGAG  
ACTGAACACAAGGCCTTGACCAGTGAGATTGCACTGCTGCAGTCCAGGCTGAAGACAGAGGGCTCTGATCTGTGC  
GACAGAGTGAGCGAAATGCAGAAGCTGGATGCACAGGTCAAGGAGCTGGTGTGAGTTCGGCGGTGGAGGCTGAG  
CGCCTGGTGGCTGGCAAGCTCAAGAAAGACACGTACATTGAGAATGAGAAGCTCATCTCAGGAAAGCGCCAGGAG  
CTGGTCACCAAGATCGACCACATCCTGGATGCCCTGTAGCCCCTGCCCGCATCCTCCAGGGGGCCAGGGTGCCT  
GCACTTTGCTGTGGCAGGCAGATTGGGTGGTAGTGGGAGGTTGTGATGGAGGCCAGTGAAAGCTGACATCTGTA  
AAAGGCCTTCAAGGAAGAGAAACCAGGCCCTGCGTCAGGCAGTGTGAGTTTGCCGTTTGTCTTAACCTTTCTTTT  
TTTTTTTTTTTTAAAAAAGAAAACCTTTAAAAAACTCCCATTAATAAACAAACATCTTTGTGTTTTGAACAAAGG  
AATTTTCAATATTTGATTGGTATTCTGTTCTGAAGTCTAAGATATTTTTTCAGCCTATAAAGCCCCCTGTTTTATG  
CCCTTCTAATTCTGATGTTTGGGTATTGTGTGAGTGCATGTGTTTTTTTTTTTTTTTTTAAAGCGTGTGTGAACA  
AATGGAAATAAAGCAGGGACTGTG



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**FIGURE 1244**

GTGAGCGCCAGGAAGGTAGCGAGGCCAGCGTCGCCCCGGGACTCGCTGCTCAAGTCTGTCTATTGCCTGCCGCCA  
CATCCATCCTAGCAGGGCCCCGTCGCCCCACCAGGCGGACAAAAGCGGTCCGCTGAACACCATGCGGCCGCTCGGC  
GTGCCGCCAGGCTCTGCTGGTGAGCGCCGCCACCCCGCGCCCAGGTCCCGCGAGCCCGCCTGCCGCGCACCTCG  
CCCTGCTCCCAGCTCTACTCCAGGCCCCGTCGCCCCGGGGCGCCGCCACCGCGCCTCGCTCGGGCCGTTGCCG  
TCTGCACCCAGACCCTGAGCCGCCGCCGCCGCCATGGAGGTGGCGCCCGAGCAGCCGCGCTGGATGGCGCACCC  
GGCCGTGCTGAATGCGCAGCACCCCGACTCACACCACCCGGGCCTGGCGCACAACTACATGGAACCCGCGCAGCT  
GCTGCCTCCAGACGAGGTGGACGTCTTCTTCAATCACCTCGACTCGCAGGGCAACCCCTACTATGCCAACCCCGC  
TCACGCGCGGGCGCGCGTCTCCTACAGCCCCGCGCAGCCCGCCTGACCGGAGGCCAGATGTGCCGCCACACTTG  
TTGCACAGCCCGGGTTTGCCCTGGCTGGACGGGGGCAAAGCAGCCCTCTCTGCCGCTGCGGCCACCACCACAAC  
CCCTGGACCGTGAGCCCCCTTCTCCAAGACGCCACTGCACCCCTCAGCTGCTGGAGGCCCTGGAGGCCACTCTCT  
GTGTACCCAGGGGTGGGGTGGGAGCGGGGAGGCAGCGGGAGCTCAGTGGCCTCCCTCACCCCTACAGCAGCC  
CACTCTGGCTCCCACTTTTCGGCTTCCCACCCACGCCACCCAAAGAAAGTGTCTCCTGACCCCTAGCACCACGGGG  
GCTGCGTCTCCAGCCTCATCTTCCGCGGGGGGTAGTGACGCCCGAGGAGAGGACAAGGACGGCGTCAAGTACCAG  
GTGTCACTGACGGAGAGCATGAAGATGGAAGTGGCAGTCCCCTGCGCCAGGCCCTAGCTACTATGGGCACCCAG  
CCTGCTACACACCACCCCATCCCCACCTACCCCTCCTATGTGCCGGCGGGCTGCCACGACTACAGCAGCGGACTC  
TTCCACCCCGGAGGCTTCTTGGGGGGACCGGCCTCCAGCTTACCCCTAAGCAGCGCAGCAAGGCTCGTTCTGT  
TCAGAAGGCCGGGAGTGTGTCAACTGTGGGGCCACAGCCACCCCTCTCTGGCGCGGGACGGCACCGGCCACTAC  
CTGTGCAATGCCTGTGGCCTCTACCACAAGATGAATGGGCAGAACCGACCACTCATCAAGCCCAAGCGAAGACTG  
TCGGCCGCCAGAAGAGCCGGCACCTGTTGTGCAAATTGTGACGACAACCACCACCTTATGGCGCCGAAACGCC  
AACGGGGACCCCTGTCTGCAACGCCGTGTGGCCTCTACTACAAGCTGCACAATGTTAACAGGCCACTGACCATGAAG  
AAGGAAGGGATCCAGACTCGGAACCGGAAGATGTCCAACAAGTCCAAGAAGAGCAAGAAAGGGGCGGAGTGCTTC  
GAGGAGCTGTCAAAGTGATGCAGGAGAAGTCATCCCCCTTCAGTGACGCTGCCCTGGCTGGACACATGGCACCT  
GTGGGCCACCTCCCCGCCCTTCAGCCACTCCGGACACATCCTGCCCCTCCGACGCCCATCCACCCCTCCTCCAGC  
CTCTCCTTCGGCCACCCCAACCCGTCCAGCATGGTGACCGCCATGGGCTAGGGAACAGATGGACGTCGAGGACCG  
GGCACTCCCGGGATGGGTGGACCAAACCTTAGCAGCCAGCATTTCCCGAAGGCCGACACCACTCCTGCCAGCC  
CGGCTCGGCCCCAGCACCCCTCTCCTGGAGGGCGCCAGCAGCCTGCCAGCAGTTACTGTGAATGTTCCCCACCG  
CTGAGAGGCTGCCTCCGCACCTGACCGCTGCCAGGTGGGGTTTCTGTCATGGACAGTTGTTTGGAGAACAACAA  
GGACAACCTTTATGTAGAGAAAAGGAGGGGACGGGACAGACGAAGGCAACCATTTTGTAGAAGGAAAAGGATTAGG  
CAAAAATAATTTATTTTGTCTTGTCTTCTAACAAGGACTTGAGACTTGGTGGTCTGAGCTGTCCCAAGTCCTCC  
GGTTCTTCTCGGGATTGGCGGGTCCACTTGCCAGGGCTCTGGGGGACAGATTGTGGGGACCTCAGCCTGCACCC  
TCTTCTCCTCTGGCTTCCCTCTCTGAAATAGCCGAACCTCCAGGCTGGGCTGAGCCAAAGCCAGAGTGGCCACGGC  
CCAGGGAGGGTGAGCTGGTGCCTGCTTTGACGGGCCAGGCCCTGGAGGGCAGAGACAATCACGGGCGGTCTCTGCA  
CAGATTCCCAGGCCAGGGCTGGGTACAGGAAGGAAACAACATTTTCTTGAAAGGGGAAACGTCTCCAGATCGC  
TCCCTTGGCTTTGAGGCCGAAGCTGCTGTGACTGTGTCCCCTTACTGAGCGCAAGCCACAGCCTGTCTTGTGAGG  
TGGACCCTGTAAATACATCCTTTTTCTGTTAACCCTTCAACCCCTCGCCTACTACTCTGAGAC

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**FIGURE 1245**

GTCAAAGTGCATGCAGGAGAAGTCATCCCCCTTCAGTGCAGCTGCCCTGGCTGGACACATGGCACCTGTGGGCCA  
CCTCCCGCCCTTCAGCCACTCCGGACACATCCTGCCCACTCCGACGCCCATCCACCCCTCCTCCAGCCTCTCCTT  
CGGCCACCCCCACCCGTCCAGCATGGTGACCGCCATGGGCTAGGGAACAGATGGACGTCGAGGACCGGGCACTCC  
CGGGATGGGTGGACCAAACCCTTAGCAGCCCAGCATTTCGGAAGGCCGACACCACTCCTGCCAGCCCGGCTCGA  
CCCAGGGAGAGGCTGTGTCCCTGCTGGGGTCTCAGGTCCAGCTTTACTGTGGCTGTCTGGATCCTTCCCAAGGTA  
CAGCTGTATATAAACGTGTCCCGAGCTTAGATTCTGTATGCGGTGACGGCGGGGTGTGGTGGCCTGTGAGGGGCC  
CCTGGCCCAGGAGGAGGATTGTGCTGATGTAGTGACCAAGTGCAATATGGGCGGGCAGTCGCTGCAGGGAGCACC  
ACGGCCAGAAGTAACTTATTTTGTACTAGTGTCCGCATAAGAAAAAGAATCGGCAGTAT

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**FIGURE 1246**

GGCACGAGGATAAAGCCTGAGGCGGCGGCAGCGGCGGAGTTGGCGGCTTGGAGAGCTCGGGAGAGTTCCCTGGAA  
CCAGAACTTGGACCTTCTCGCTTCTGTCCTCCGTTTAGTCTCCTCCTCGGCGGGAGCCCTCGCGACGCGCCCGGC  
CCGGAGCCCCCAGCGCAGCGGCCGCGTTTGAAGGATGACCTCTAGGAAGAAAGTGTTGCTGAAGGTTATCATCCT  
GGGAGATTCTGGAGTCGGAAGACATCACTCATGAACCAGTATGTGAATAAGAAATTCAGCAATCAGTACAAAGC  
CACAATAGGAGCTGACTTTCTGACCAAGGAGGTGATGGTGGATGACAGGCTAGTCACAATGCAGATATGGGACAC  
AGCAGGACAGGAACGGTTCCAGTCTCTCGGTGTGGCCTTCTACAGAGGTGCAGACTGCTGCGTTCTGGTATTTGA  
TGTGACTGCCCCCAACACATTCAAAACCCTAGATAGCTGGAGAGATGAGTTTCTCATCCAGGCCAGTCCCCGAGA  
TCCTGAAAACCTTCCCATTGTGTGTTGGGAAACAAGATTGACCTCGAAAACAGACAAGTGGCCACAAAGCGGGC  
ACAGGCCTGGTGCTACAGCAAAAACAACATTCCCTACTTTGAGACCAGTGCCAAGGAGGCCATCAACGTGGAGCA  
GGCGTTCCAGACGATTGCACGGAATGCACTTAAGCAGGAAACGGAGGTGGAGCTGTACAACGAATTTCCCTGAACC  
TATCAAACCTGGACAAGAATGACCGGGCCAAGGCCTCGGCAGAAAGCTGCAGTTGCTGAGGGGGCAGTGAGAGTTG  
AGCACAGAGTCCTTCACAAACCAAGAACACACGTAGGCCTTCAACACAATTCCCCTCTCCTCTTCCAAACAAAC  
ATACATTGATCTCTCACATCCAGCTGCCAAAAGAAAACCCCATCAAACACAGTTACACCCACATATCTCGCACA  
CACACACACACACGCACACACACACACACAGATCTGACGTAATCAAACCTCCAGCCCTTGCCCGTGATGGCTCCTT  
GGGGTCTGCCTGCCACCCACATGAGCCCGCGAGTATGGCAGCAGGACAAGCCAGCGGTGGAAGTCATTCTGATA  
TGGAGTTGGCATTGGAAGCTTATTCTTTTTGTTCACTGGAGAGAGAGAGAACTGTTTACAGTTAATCTGTGTCTA  
ATTATCTGATTTTTTTTTATTGGTCTTGTGGTCTTTTTACCCCCCTTCCCCTCCCTCCTTGAAGGCTACCCCTT  
GGGAAGGCTGGTGCCCATGCCCCATTACAGGCTCACACCCAGTCTGATCAGGCTGAGTTTTGTATGTATCTATC  
TGTTAATGCTTGTTACTTTTAATAATCAGATCTTTTTACAGTATCCATTTATTATGTAATGCTTCTTAGAAAAG  
AATCTTATAGTACATGTTAATATATGCAACCAATTAAATGTATAAATTAGTGTAATAAAAAAAAAAAAAAAAAA

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**FIGURE 1247**

MSFSSRPVPEILKTSHLLCWETRLTSKTDKWPQSGHRPGATAKTTFPTLRPVPRRPSTWSRRSRRLHGMHLRKR  
RWSCTTNFLNLSNWTRMTGPRPRQKAAVAEGAVRVEHRVLHKPRTHVGLQHNSPLLFTKHTLISHIQLPKENPI  
KHSYTPHISHTHTHTHTHTHRSDVIKLQPLPVMAPWGLPAHPHEPASMAAGQASGGSHSDMELALEAYSFCSLER  
ERTVYS

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**FIGURE 1248**

AGAATCTTCAGTTTCTGTGAGCGTCCGCTTCGTCTGGGCACTTCCGGTACTCCCATTCAGTTCCGGTCCCTGTCT  
TTTACGTTTCCGGCAAAACATCAGTGTCGTGTGGGTAGTTGGAATCTTCAGTTCCCTGTGAGCGTCGGCGTCTTCTG  
GGCCTGTGGAGTTTCTTGGACAGGGGCCGCGGGGCTCCAGGACGGCGCCCTTAGCGACACC**ATG**CCCCGAAATGC  
AGAAAAGGCCATGACGGCCTTAGCAAGATTTCCGCCAGGCTCAGCTGGAAGAGGGAAAAGTGAAGGAACGAAGACC  
CTTCTGGCCTCAGAATGTACTGAACTGCCTAAAGCTGAGAAGTGGAGACGACAGATCATTGGAGAGATCTCTAA  
AAAAGTGGCTCAGATTCAGAATGCTGGTTTAGGTGAATTTTCAATTCGTGACCTGAATGATGAAATTAACAAGCT  
GCTAAGGGAGAAAAGGACACTGGGAGGTCCGGATAAAGGAGCTGGGAGGTCCCTGATTATGGAAGATTGGCCCTAA  
AATGCTGGATCATGAAGGAAAAGAAGTCCAGGAAACCGAGGTTACAAGTACTTTGGAGCAGCAAAAGATTTGCC  
TGGTGTTAGAGAGCTGTTTGAAAAAGAACCTCTTCCTCCTCCCAGAAAAGACACGTGCTGAGCTCATGAAGGCAAT  
CGATTTTGGAGTACTATGGTTACCTAGATGAAGATGATGGTGTTATTGTGCCCTTTGGAACAGGAATATGAAAAGAA  
ACTCAGAGCCGAGTTAGTGGAAGTGGAAAGCAGAGAGAGAGGGCTCGGCTGGCAAGAGGAGAAAAGGAAGAGGA  
GGAGGAAGAGGAGGAAGAGATCAACATCTATGCAGTCACCGAGGAGGAGTCGGACGAGGAAGGCAGCCAGGAGAA  
AGGAGGGGACGACAGCCAGCAGAAGTTCATTGCTCACGTCCCTGTTCCTCGCAGCAAGAGATTGAGGAGGCACT  
GGTGCGAAGGAAGAAAATGGAACCTCCAGAAGTATGCAAGCGAGACCCTGCAGGCCCAAAGTGAAGAAGCCAG  
AAGGCTCCTGGGGTAT**TAG**GACCCAGCTGGGGCTCTCCTTGGAGTTCTTCCATCCCCAGTGGTACCTCAGGACC  
CAGGGCTGCAGACACAGGCTGGTGCTGCAAGGGCTCCTGCCCCATTCTCAGCCTTCCTTCCCTCTCCTTGCTCTCA  
TGTTGACCGGAGGGTAGGGGTCTGTCCCTGGTCTTCTGGTAGGTTTGTACACATATTTTGCTACTGTGTGGAT  
CCATTTATTTTATTGTGGAGTGATACAACAGGTTGCGAACTGGCTGCCTGTGTCTTATTTTGACTTGCACTGC  
CATTTTGAGGGGAGAAGAATCAATTAGTGGCAAACATTTAAAAATGCAATTTTTTGAGACCAAAGTATAATTTT  
AAAAATGCAATTTTCTAAAAGACACATCTCTTGAAAAATGAGATGATGTGGCCAGGCGCAGTGGCTCACGCCT  
GTAACCCACGACTTTGGGAGGCCGAGGCGGGCGGGTACGAGGTCAAGAGATGGAGACCATCCTGGCCAACATG  
GTGAAACCCCATGTCTACTAAAAATACAAAAAATTAGCTGGGCGTACTGGCATGCACCTGTAGTCCCAGCTGCT  
TGGGAGGCTGAGGCAGGAGAATCACTTGAACCCGAGAGGTGGAGGTTGAAGTGAGCCAAGATCGTGCCATTGCAC  
TCCAGCCTGGCGACAGAGTGAGACTCTGTCCACAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1249**

MARNAEKAMTALARFRQAQLEEGKVKERRPFLASECTELPKAEKWRRQIIGEISKKVAQIQNAGLGEFRIRDND  
EINKLLREKGHWEVRIKELGGPDYGKVGPKMLDHEGKEVPGNRYKYFGAAKDLPGVRELFEKEPLPPPRKTRAE  
LMKAIDFEYYGYLDEDDGVIVPLEQEYKKLRAELVEKWKAEREARLARGEKEEEEEEEINIYAVTEESDEE  
GSQEKGGDSQKFAHVPVPSQQEIEEALVRRKKMELLQKYASETLQAQSEEARLLGY

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**FIGURE 1250**

GAATTCCAAACAGCCTCTACCTTGCGAGCCGTCTTCCCCAGGCCCTGCGTCCGAGTCTCCGCCGCTGCGGGCCCGC  
TCCGACGCGGAAGATCTGACTGCAGCCATGAGCAGCAATGAGTGCTTCAAGTGTGGACGATCTGGCCACTGGGCC  
CGGGAATGTCCTACTGGTGGAGGCCGTGGTCGTGGAATGAGAAGCCGTGGCAGAGGTGGTTTTACCTCGGATAGA  
GGTTTCCAGTTTGGTTTCTCGTCTCTTCCAGATATTTGTTATCGCTGTGGTGAGTCTGGTCATCTTGCCAAGGAT  
TGTGATCTTCAGGAGGATGCCTGCTATAACTGCGGTAGAGGTGGCCACATTGCCAAGGACTGCAAGGAGCCCAAG  
AGAGAGCGAGAGCAATGCTGCTACAACGTGGCAAACCAGGCCATCTGGCTCGTGACTGCGACCATGCAGATGAG  
CAGAAATGCTATTCTTGTGGAGAATTCGGACACATTCAAAAAGACTGCACCAAAGTGAAGTGCTATAGGTGTGGT  
GAAACTGGTCATGTAGCCATCAACTGCAGCAAGACAAGTGAAGTCAACTGTTACCGCTGTGGCGAGTCAGGGCAC  
CTTGACGGGAATGCACAATTGAGGCTACAGCCTAATTATTTTCTTTTGTGCGCCCTCCTTTTTCTGATTGATGG  
TTGTATTATTTTCTCTGAATCCTCTTCACTGGCCAAAGGTTGGCAGATAGAGGCAACTCCCAGGCCAGTGAGCTT  
TACTTGCCGTGTAAAAGGAGGAAAGGGGTGGAAAAAACCGACTTTTCTGCATTTAACTACAAAAAAGTTTATGT  
TTAGTTTGGTAGAGGTGTTATGTATAATGCTTTGTTAAAGAACCCCTTTCCGTGCCACTGGTGAATAGGGATTG  
ATGAATGGGAAGAGTTGAGTCAGACCAGTAAGCCCGTCCTGGGTTTCTTGAACATGTTCCCATGTAGGAGGTAAA  
ACCAATTCTGGAAGTGTCTATGAACTTCCATAAATAACTTTAATTTTAGTATAATGATGGTCTTGGATTGTCTGA  
CCTCAGTAGCTATTAAATAACATCAAGTAACATCTGTATCAGGCCCTACATAGAACATACAGTTGAGTGGGAGTA  
AACAAAAAGATAAACATGCGTGTTAATGGCTGTTGAGAGAAATCGGAATAAAAGCCTAAACAGGAACAACCTTCA  
TCACAGTGTTGATGTTGGACACATAGATGGTGATGGCAAAGGTTTGAACACATTATTTTCAAAGACTAAATCTA  
AAACCCAGAGTAAACATCAATGCTCAGAGTTAGCATAATTTGGAGCTATTTCAGGAATTGCAGAGAAATGCATTTT  
CACAGAAATCAAGATGTTATTTTGTATACTATATCACTTAGACAACCTGTGTTTCATTGCTGTAATCAGTTTTT  
AAAAGTCAGATGGAAAGAGCAACTGAAGTCCTAGAAAATAGAAATGTAATTTTAACTATTCCAATAAAGCTGGA

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**FIGURE 1251**

MSSNECFKCGRSGHWARECPTGGGRGRGMRSRGRGGFTSDRGFQFVSSSLPDICYRCGESGHLAKDCDLQEDACY  
NCGRGGHIAKDCKEPREREQCCYNCGKPGHLARDCDHADEQKCYSCGEFGHIQKDCTKVKCYRCGETGHVAINC  
SKTSEVNCYRCGESGHLARECTIEATA



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**FIGURE 1252**

CATGGCTGCCCTCAGATCCCTTGTGAAGCCCAAGATCGTCAAAAAGAGAACCAAGAAATTCATCCGGCACCAGTC  
AGACCGATATGTCAAAATCAAGATGAGAAGAATAATGTCTGGGGTGAAGGTGAAGCACCCAGCCCAAGACTCAGC  
AGCCAGGAAGTGGCCCAGCGCTCTTTATACCACGGGTGCAGGAATTCACACAGAAAAGTGGAGGCCAAGGCGTGA  
GAATTCCTCAATGACTGCCCTCTAAAGGAAGAGGACCAGGCTTCCTGTCAGAGACTGAGGACCCAGGAAGAAACA  
TGTCTCGGCCCCGTGTCCCCCTCCACAATTCAGAGGCCACATTCTAACAGGGGAGGCTGACCAATTAAACAGATAA  
TGACACCTCCTAGAGCTAAGAGCTCTCCGACTATGAACCAGATGCCTGGAGAACACGGATGAATGGTCTGAGCAT  
GAGCAGGGGTGGGAGGCAGCGTTAAGGGAGGCATCAGAGTCAGAACCTAGCAAACAAGTGTGTTGTGAAGAAGAAT  
TCATAGAAAAGGGCAATGCGGGCATCACATGGGCTAAGGAACAGAGGGGTAGCAGTAGCTGTTGTGCCAAGCTGC  
AGGTGTTATACACTACCCTCTAGATCTGGGTTTTCTTAAACACCTTGAGAGGACAACCCTGCAAAGCACGGCAC  
AGTGGCCGAGAGGGAAAGGAGCATTGAGGTCTCAGTCCTCGCTCTGAGCCTACTTCTCTGCTTCTGGGCTCCAG  
CCATCTTTGTGGAAAGGGGGCTGCTAGTGACACCTCTCAAGGGTCTTTCCAGCTCTAGGTGCGGCTGTGCTGGAG  
TCTAGGATTTGCCCACTGAGAAATCTGTTTCCAAGTTCCTTCAACCTGATGCATCCTGCAGCATCACGGCAGCTG  
TTCAGAGTGGTCAGAAGGCCCTGAATGAGCTCAGTAGAGGGAAGCCTGGGAACAGGGAGGCACCTGCAGCTCTA  
CTCATGGCCTGGCCAGAGCTCAGCAGCTCTTCTCTGCCATCTAGTGGGGATGGCATAACCATCACTGGGGACCACC  
CTGTGCAAACCTGGTGAGCCTGAGTGCCTGTCACAGAGGGAAGAAAGGGGGGGGATACAGGATTTAGATGAAATA  
GCAACTCCTACCCTATTGTCAAAATCATCCAGCTTTTTCAAAACATCATATTGTACTGATTTTTTTGTGTTTTTG  
ACAGAGTCTTGCTGTGTACCAAGGCTGGAATGCAGTGGCATGATCTCGGCTCACTGTAGCCTCTGTCTCCCTGG  
TTCAAGCAATTCTGCCCCAGCCTCCAAGTAGCTGGGACTACAGGCATGCGCCACCACACCCAGCTAAGTTTTGT  
ATTTTTTTAGTAGAGTCAGGGTTTTACTTTGGCCAGGCTGGTCTTAACTCCTGGCCTCAACTGATCTGCCTGTC  
TCGGCCTCCCAAAGAACTGGGATTACAGGCATGAGGCACCGTGCCTGTCCCATGTTGTACTTAATAGATATTTAC  
CATATACAATTATTTTTTAATTTAAATAAATCAATGAACAGTGTTATTTTTT

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**FIGURE 1253**

MHPAASRQLFRVRRPLNELSRGKPGNREAPAALLMAWPELSSSSLPSSGDGIPSLGTTLCCLVSLSACHRGKER  
GGIQDLDEIATPTLLSKSSSFFKTSYCTDFFVFLTESCCVTKAGMQWHDLSL

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**FIGURE 1254**

GGTGGCGTGGGGACTCCCTGAAAGCAGAGCGGCAGGGCGCCCGGAAGTCGTGAGTCGAGTCTTCCCGGGCTAATC  
CATGCCGGGTGGAGGCTGCTGACGCAGGTCGGCGCCCAGGTGCTGGGTCGACTCGGGGACGGCCTGGGTGCTGC  
CCTGGGCCCCGGGGAACAGAACACACATCTGGCTTTTTGTTAGAGGTCTTCATGGAAAGAGTGGTACATGGTGGGA  
TGAGCATCTTCTGAAGAAAATGTCCCATTCATTAAGCAGTTGGTCTCTGATGAAGATAAAGCCCAATTAGCAAG  
TAAACTGTGTCCTCTGAAAGATGAACCATGGCCTATACATCCTTGGGAACCAGGTTCCTTTAGAGTTGGTCTTAT  
TGCCTTGAAGCTGGGCATGATGCCTTTATGGACCAAGGATGGTCAAAAAGCATGTGGTCACATTACTTCAGGTACA  
AGACTGTGTCATGTCTTAAATATACGTCAAAGGAAAATGTAATGGAAAAATGGCAACCCTGTCTGTAGGAGGAAA  
AACTGTATCACGTTTTTCGTAAAGCTACATCCATATTGGAATTTTACCGGGAACCTGGATTGCCGCCGAAACAGAC  
AGTTAAAAATCTTTAATATAACAGATAATGCTGCAATTAAACCAGGCACTCCTCTTTATGCTGCTCACTTTTCGTCC  
TCGACAGTATGTGGATGTCACAGCCAAATCGTAGTGGTAAAGGTTTTCAAGGTGTCATGAAAAGATGGGGATTTA  
AAGGCCAGCCTGCTACGCATGGTCAAACGAAAACCCACAGGAGACCTGGAGCTGTTGCAACTGGTGATATTGGCA  
GAGTCTGGCCTGGAACATAAATGCCTGGAAAAATGGGAAACATATACAGGACAGAATATGGACTGAAAGTGTGGA  
GAATAAACACAAAGCACAAACATAATCTATGTAAATGGCTCTGTACCTGGACATAAAAAATTGCTTAGTAAAGGTCA  
AAGATTCTAAACTGCCTGCATATAAGGATCTCGGTAAAAATCTACCATTCCTACATATTTTCCTGATGGAGATG  
AAGAGGAAGTGCAGAAAGATTTGTATGATGAAAACGTGTGTCAGCCCGGTGCGCCTTCTATTACATTTGCCTAAC  
ATCTTTGGACGTGGCAGAACCTTACATATTCTGTGAGCTTCGATGAGCCAGAGTGATATCATAACCACCAGAAAT  
CATACTCTCCTTTCTTAGTCACAACAAAATCACACATGTCATCTTTGTCAAGGGCATAAATATATCATTTCATACC  
CCCATTAATTTTTGTTAGAAAAATTACCACATTAAATATATGAGTTAAGTAGATTGGATTTGCTGAAATTGGTGT  
TGGGCATATTAGCAAAATATTCTTAATTTGTGGACTCGATTCTTTTTTACTACATATTTCCCAAGTTATCTTAAG  
ATGTCTGTAAATTTAACTTTTATTAAAGTTTTGTCAATCTTTGTGAATAGTGGTTGTGGAACAGTAGAAAACCAT  
ATGGGGACTATAGTGAACCTATTTGGGTAAAGAAACCATTTGCTAAAATGGAGAAAGTAAATAGATTTTTATTT  
AAATTACAGAAACATGTTAAAGGCCGGACAAAGGAAAGACAATAAAATCATAAATTATC

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**FIGURE 1255**

ATGATGACAGTAGGAGTTGAGTGGAGGAGATGGCAAGTTGAGCGGAGGAGGTGGCAGTGGGGCCCCAGATCAGGT  
GCCTCCATGGCAGGCCTGAAGAGCTGGGGCTCCGGGAAGACACGCTGAGGGTCCTAGCTGCCTTCCTTAGGCGT  
GGTGAGGCTGCTGGGTCTCCTGTTCCAAATCCACCTAGAAGCCATGCCCAAGAAGAGCCAACAGACTTCCTGAGC  
CGCCTTCGAAGATGTCTTCCCTGCTCCCTGGGGCGAGGAGCAGCCCCCTCTGAGTCCCCTCGGCCTTGGTCTCTG  
CCCATCCGCCCCTGCTATGGAGCCCCTGGCCCTGGCCATGGAGCTGAGCCGGCGCGTGGCCGAGCTGGGGGACAC  
CCGGGCCGGACTCAGCGTAGAGCACGCGCACAGCCTCACGCCCTGGATCCAGGCCACGGGGGCCGGCTCCACTG  
CGTTCGTTCTGTGGTGAGCCCTTGCTGTATGCCCGGACTGCAGCCATGAGTGTGGACGCTATGCCTGGCGTCAAT  
GACTGGGTACGCTAA

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**FIGURE 1256A**

GAGGTCAGACCGGTTGCTTTCCCGGGAGTTCGGCGTTTGGCTGGGGCTGCAGCAGCTGAAGTGTAAGTGTGTTTTCTTG  
GGACTGGCGGTCTGCACTTCTCTCCCGGGTTCATCTCCCCCGCCGGTGGTGAGGCCCTCGAGGAGGGCTCGG  
ACGGGTGTAGCGATCCGCGCTAGAGGAAGACGAGGCCCGGGAACGCATGTCCCCAGGGCAGGTTAGGGGGCTGG  
AGGGGTCAAATCCCGGGGTACTTGTGGAGACTCTTTAGCGTGGCTTCTTCTCTCTGCTGAGACCCCGAGAGCTTT  
CCCAGTTCTCTCTCCAGGACCACCGGGGTTCCCTGAAGATCGGGACTTTTCTGCGCCCTCCACCAACAGCCCATC  
TCCTGTCTATGAAGAAAGACCCTTCGTAGAAACAACCTTCCCGCTGCTGACGCGTTTTTCCCGTCCCGTCCCGAA  
GTAGTCTACTATGACCTCGTTGTGAGCCTCTGAACGATTTTGACACTTTCCCGAGGCCTAGGGTATTATATCCTA  
ACCTTACTAAAGACCACAGAGGTGCTTGCCATTATGGAATCAGCTTGCTGGCATTGCTCCCTCCAGATCCTT  
TCTGTAGAGAGTTATTTTTCAGATATTCATGACTTTGAATATGATAAAAGCCTGGGGAGTACTCGGTTTTTTAAA  
GTTGCTCGAGCCAAGCACCGAGAAGGCCTGGTCGTTGTGAAGGTTTTTGCAATTCAGGATCCACATTGCCTTTA  
ACCAGCTATAAAACAAGAGCTGGAGGAACTGAAAATCAGGCTTAATCTGCACAGAATTGTCTACCTTTCCAGAAA  
GCATCAGAAAAAGCATCTGAGAAAGCAGCTATGCTCTTTAGGCAGTATGTGCGAGACAATCTCTATGATCGCATC  
AGTACCCGCTCATTCTTGAATAACATTGAGAAGCGCTGGATTGCTTTCCAGATCCTGACAGCTGTGGACCAAGCA  
CACAAATCTGGAGTTTCGTATGGGGACATCAAGACTGAGAATGTGATGGTCACCAGTTGGAATTGGGTTCTTCTA  
ACTGATTTTGCCAGTTTTTAAGCCCACTTATCTTCCAGAAGACAACCCGGCAGATTTCAATTATTTCTTTGACACA  
TCACGGAGGAGAACTTGCTATATTGCTCCTGAACGTTTTTGTGATGGTGGGATGTTTGCCACTGAGTTAGAATAT  
ATGAGAGATCCTTCAACTCCGCTTGTAGACTTAAATAGCAATCAGAGAACAAGAGGAGAGTTGAAGAGAGCAATG  
GACATCTTTTTCAGCAGGTTGTGTGATAGCTGAGCTTTTTACAGAAGGTGTACCATTATTTGATCTCTCTCAACTT  
TTGGCTTATAGAAATGGACATTTTTTCCCTGAACAAGTGCTAAATAAAATTGAAGATCACAGTATCAGAGAATTG  
GTAATCAGATGATTCACCGTGAGCCAGATAAACGTTTAGAGGCAGAAGATTACTTAAACAGCAGCGTGGCAAT  
GCCTTTTCTGAAATATTTTTACACTTTTTCTTCAGCCCTACATGGCCCAAGTTTGCCAAGGAAACGTTTCTTTCTGCA  
GATGAGCGTATTCTGGTTATACGGAAGGATTTGGGCAACATTATTCACAATCTCTGTGGACATGATCTGCCAGAA  
AAAGCCGAAGGAGAGCCTAAGGAAAATGGGCTGGTTATCTTGGTATCTGTTATAACATCCTGCCTACAGACCCTT  
AAATACTGTGATTCCAACTAGCTGCTTTGGAAGTATTCTTCAATTTGGCTCCAAGATTAAGTGTGAAATCCTT  
TTGGATCGTATTACTCCATATCTTTTGCAATTCAGCAATGACTCTGTTCCCTAGGGTGAGGGCTGAAGCCTTGAGG  
ACGTTGACCAAAGTTCTTGCTCTCGTCAAAGAGGTTCCCTCGTAATGATATCAATATTTATCCGGAATACATTCTG  
CCAGGCATAGCCCACTTAGCCCAAGATGATGCTACTATCGTTAGACTAGCCTATGCTGAAAACATAGCTCTGCTG  
GCAGAAACAGCTCTGAGATTCTTGGAATTAGTACAGTTAAAAAATCTTAATATGGAAAATGACCCCAATAATGAA  
GAAATAGATGAGGTTACACATCCAAATGGAAATTATGACACAGAGCTCCAAGCCTTACATGAAATGGTCCAGCAG  
AAAGTTGTTACTTTGCTAAGTGACCCTGAAAATATTGTAACAACCTTGATGGAAAATGGAATAACACGGCTG  
TGTGTATTCTTTGGACGTCAGAAAGCCAACGATGTTTTGTTGTCACCATGATTACTTTCTAAATGATAAGAA  
GATTGGCATCTACGTGGAGCATTTTTTGATAGTATAGTTGGTGTGCTGCCTATGTTGGCTGGCAAAGCTCCTCA  
ATTCTCAAGCCTCTGCTGCAACAAGGTCTTAGTGATGCTGAGGAATTTGTCATTGTGAAAGCTCTTTATGCCCTT  
ACTTGATGTGCCAGTTAGGACTGCTACAAAAACCCCATGTTTACGAATTTGCCAGTGATATTGCCCCCTTCTG  
TGTCATCCCAATTTATGGATACGTTATGGTGCCGTGGGATTTATCACAGTGGTAGCTCGTCAAATAAGTACAGCT  
GATGTCTACTGTAACTGATGCCTTATCTTGACCCATATATTACCCAACCAATAATACAGATTGAAAGAAAACCTT  
GTTCTGCTCAGTGTTTTAAAGGAACCAGTAAGTCGTTCTATATTTGATTATGCTTTGAGGTCTAAAGATATTACT  
AGCTTGTTTCAGACATCTTACATGCGTCAGAAGAAACGAAATGGTTCTTCCCGACTGCCCTCCGCCAGAGGAT  
CCTGCCATAGCACAGCTTCTGAAGAAGTTGCTCTCACAGGGAATGACAGAGGAAGAGGAAGACAAACTTCTGGCA  
CTGAAAGACTTCATGATGAAATCTAATAAAGCAAAGGCCAATATAGTGGACCAGAGCCATCTTCATGATAGTAGT  
CAGAAAGGTGTAATTGACTTGGCAGCTTTAGGCATAACTGGGAGACAAGTTGATCTTGTAAAACCAAACAAGAA  
CCAGATGACAAAACGGCCAGAAAACATGTAAAACAAGACTCAAATGTAAATGAAGAATGGAAGAGCATGTTTGGG  
TCACTGGACCCACCAAACATGCCACAGGCCCTACCTAAAGGGAGTGATCAGGAGGTGATTGAGCTGGGAAACCT  
CCTCGTTCCGAGTCTCTGCTGGCATTGTGTCCCTTTGTCAACTCTTTCACAGGTTCCAGAAGTGACAACCTGTC  
CAAAATAAAAAACAGTAATACCGGTTTTAAGTAGTACAATCTTACCATCCACCTATCAGATTGCAATTACAAC  
TGTAAGAACTGAACCTCAGCAACTCATCCAGCAAAAGCGGGAGCAGTGCAATGCTGAGAGAATAGCTAAGCAGATG  
ATGGAAAATGCTGAATGGGAGAGTAAACCACCACCTGGATGGCGTCTTAAAGGGCTGTTAGTTGCCCATCTT  
CATGAGCATAAATCTGCTGTGAATCGAATTAGAGTCTCTGATGAACACTCACTTTTGAACATGTTCAAATGAT

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**FIGURE 1256B**

GGCACAGTGAAAAATCTGGAACAGTCAAAAGATGGAGGGGAAGACCACCACTACCAGATCTATTCTTACATACAGC  
CGAATTGGAGGACGAGTCAAGACGCTCACATTCTGCCAAGGCTCCCACTATTTAGCCATAGCATCTGATAATGGT  
GCTGTCCAGCTTCTTGGAATTGAGGCTTCTAAGCTGCCCAAGTCTCCTAAAATCCATCCTCTACAAAGCAGAATT  
CTAGATCAGAAAGGAGGACGGTTGTGTTGTGGATATGCATCACTTCAACTCTGGAGCACAGTCTGTTCTTGCCAT  
GCCACTGTGAATGGCTCTCTGGTTGGCTGGGACCTTAGGTCTTCAAGCAATGCGTGGACTTTAAAGCATGATTTA  
AAGTCGGGGCCTCATCACTTCCTTTGCTGTGGACATCCACCAATGCTGGCTCTGCATTGGTACAAGCAGTGGTACC  
ATGGCTTGTGTTGGGACATGAGGTTCCAGTTGCCAATTTCAAGTCACTGTCACTCCTTCCAGGGCTCGAATCAGACGC  
CTCTCAATGCACCCCTCTGTATCAGTCTGGGTGATTGCAGCTGTTCAAGGGCAACAACGAAGTGTCCATGTGGGAC  
ATGGAGACTGGTGACAGAAGATTTACTCTCTGGGCCAGCAGTGCACCACCACTTTCTGAATTACAGCCTTCTCCT  
CATAGCGTCCATGGTATCTACTGTAGTCTCTGCAGATGGAAATCCTATCCTACTAACAGCTGGCTCAGATATGAAA  
ATAAGGTTTTTGGGACTTGGCTTACCCAGAAAGGTCCATGTTGTTGCAGGAAGTACTAGTTCCCCATCTGTGTCC  
TACTACAGGAAAATAATTGAAGGCACTGAAGTTGTCCAGGAAATTCAGAATAAGCAGAAAGTAGGACCAAGTGAT  
GACACCCCTCGAAGGGGGCCAGAGTCCCTGCCCCGTGGGACATCATGACATCATCACTGATGTGCCACATTCCAG  
ACCACACAGGGGCTTCATCGTAACTGCTTCTAGAGATGGGATTGTGAAGGTGTGGAAATTAAAACCTACTGATTGT  
ATAAATTTTAATAGTTATAAATATAATACTATAACTCGAGAAAAGGCATTTCTAGAGAACAGATTCAATTTGCTTA  
ATTTTCAAATTATGTCTCCATATTACTGTTTCATGACTGACTGACTAAATGACACCCAAAATGGTTAAGATGTA  
CTTGACTAGTTTACTTATGCATCTCTTTGCAAGAATCAGCCAGCCAACAATGTCTGGGATTTTTATTGTATATGT  
TATAGAGGTGAGAAATGTAAAATATGAAAATGAATATGTTTATTTTGTATTGAAAAGATGGTTGAAAAGATGGT  
TGTAAGCTATTATAGTATAAACACATTTTTGCTATTAAAAATGCTATTCAAAGCAGTTAACTGT

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**FIGURE 1257**

MGNQLAGIAPSQILSVESYFSDIHDFEYDKSLGSTRFFKVARAKHREGLVVVKVFAIQDPTLPLTSYKQELEELK  
IRLNSAQNCPLPFQKASEKASEKAAMLFRQYVRDNLVDISTRPFLNNIEKRWIAFQILTAVDQAHKSGVRHGD IK  
TENVMVTSWNWVLLTDFASFKPTYLPEDNPADFNYFFDTSRRRTCXYIAPERFVDGGMFATELEYMRDPSTPLVDL  
NSNQRTGELKRAMDIFSAGCVIAELFTEGVPLFDLSQLLAYRNGHFFPEQVLNKIEDHSIRELVTQMIHREPK  
RLEAEDYDKQQRGNAPPEIFYTFLQPYMAQFAKETFLSADERILVIRKDLGNI IHNLCGHDLPEKAEGEPKENGL  
VILVSVITSCLQTLKYCD SKLALELILHLAPRLSVEILLDRITPYLLHFSNDSVPRVRAEALRTLTKVLALVKE  
VPRNDINIYPEYILPGIAHLAQDDATIVRLAYAENIALLAETALRFLELVQLKNLNMENDPNNEEIDEVTHPNGN  
YDTELQALHEMVQKQVVTLLSDPENIVKQTLMEGITRLCVFFGRQKANDVLLSHMITFLNDKNDWHLRGAFFDS  
IVGVAAYVGWQSSSILKPLLQQLSDAEFVIVKALYALTCMCQLGLLQKPHVYEFASDIAPFLCHPNLWIRYGA  
VGFITVVARQISTADVCKLMPYLDPYITQPIIQIERKLVLLSVLKEPVSRISFDYALRSKDITSLFRHLHMRQK  
KRNGSLPDCPPPEDPAIAQLLKKLLSQGMTEEEEDKLLALKDFMMKSNKAKANIVDQSHLHDSSQKGVIDLALG  
ITGRQVDLVKTKQEPDDKRARKHVQDSNVNEEWKSMFGSLDPPNMPQALPKGSDQEVITQTKPPRSESSAGICV  
PLSTSSQVPEVTTVQNKKPVIPVLSSTILPSTYQIRITTCKTELQQLIQKREQCNAERIAKQMMENA EWESKPP  
PPGWRPKGLLV AHLHEHKS AVNRIRVSDEHSLFATCSNDGTVKIWNSQKMEGKTTTTRSILTYSRIGGRVKTLTF  
CQGSYLAIASDNGAVQLLGIEASKLPKSPKIHPQLQSRILDQKEDGCVVDMHHFN SGAQSVLAYATVNGSLVGWD  
LRSSNAWTLKHDLKSLG LITSFAVDIHQCWLCIGTSSGTMACWDMRFQLPIS SHCHPSRARIRRLSMHPLYQSWV  
IAAVQGNNEVSMWDMETGDRRFTLWASSAPPLSELQSPHVS HGIYCSPADGNPILLTAGSDMKIRFWDLAYPER  
SYVVAGSTSSPSVSYRKII EGTEVVQEI QNKQKVGP SDDTPRRGPESLPVGHHD IITDVATFQTTQGFIVTASR  
DGIVKVWK

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**FIGURE 1258A**

GGCCCTGCCTTCTCCATCAGACACCTGGGAATCACAGCTGGGGCCCCTGCTTTGGCCGTTTGTCTGCTGGAATC  
TGATGGAGGAAAGACGCTCTGAGAGAGTAATTAGACGCAGACAGAGATCTCTCTCCATAGTCAGAGGAGCCTAGC  
AGGGGCTGAAGGAACTGCCTGAGGATGACAAAGAAGGGGATCCATGAACAAGGAGGTGCTAACAGGTTTCTCTGCT  
GATCTTGGCACTGACCGAAGCGCTGGCATTGTCATCCAGGAACCATCTCCCAGGGAATCTCTTCAGGTCTCTCCC  
TTCAGGCACTCCCCCGGGAACCATGGTGACAGCACCCACAGCTCTACCAGACATACTTCTGTGGTGATGCTGAC  
CCCCAATCCCGATGGACCCCCCTCACAGGCTGCAGCTCCCATGGCAACACCGACACCCCGTGCAGAGGGGCACCC  
TCCTACGCACACCATCTCCACCATCGCTGCGACAGTAACCGCCCCCATCTGAAAGCTCCCTGTCCACAGGGCC  
CGCTCCAGCAGCCATGGCAACCACATCTCCAAGCCAGAGGGCCGCCCTCGAGGGCAGGCTGCCCCCACCATCCT  
GCTGACAAAGCCACCGGGGGCCACCAGCCGCCCCACCACAGCGCCCCCCCCGCACTACCACACGCAGGCCCCCAG  
GCCCCAGGCTCTTCCCGAAAAGGGGCTGGTAATTCATCACGCCCTGTCCCGCTGCACCTGGTGGCCACTCCAG  
GAGTAAAGAAGGACAGCGAGGACGAAATCCAAGCTCCACACCTCTGGGGCAGAAGCGGCCCTGGGGAAAATCTT  
TCAGATCTACAAGGGCAACTTCACAGGCTGTGTGAACCGGAGCCCTCTACCCTCACCCCCAGGACCCCACTCTG  
GGGCTACTCTCTTACCACAGCCCCAGACAGTGGCTGCGACCACAGTGGCCAGCAATACCTCATGGGCACCCAC  
CACCACCTCCCTGGGGCCTGCAAAGGACAAGCCAGGCCTTCGCAGAGCAGCCAGGGGGGTGGTTCTACCTTCAC  
CAGCCAAGGAGGGACACCAGATGCCACAGCAGCCTCAGGTGCCCTGTGAGTCCACAAGCTGCCCCAGTGCCTTC  
TCAGCGCCCCCACCACGGTGACCCACAGGATGGCCCCAGCCATAGTGACTCTTGCTTACTGTTACCCCTGGCAC  
CAGCAGACCTCTGTCTACCAGCTCTGGGGTCTTCACGGCTGCCACGGGGCCCCACCCAGCTGCCTTCGATACCAG  
TGTCTCAGCCCCCTTCCCAGGGGATTCTCAGGGAGCATCCACAACCCCAACAAGCTCCAACCCATCCCTCCAGGGT  
CTCAGAAAGCACTATTTCTGGAGCCAAGGAGGAGACTGTGGCCACCCTCACCATGACCGACCGGGTGCCAGTCC  
TCTCTCCACAGTGGTATCCACAGCCACAGGCAATTTCTCAACCGCCTGGTCCCCGCCGGGACCTGGAAGCCTGG  
GACAGCAGGGAACATCTCCCATGTGGCCGAGGGGGACAAACCGCAGCACAGAGCCACCATCTGCCTGAGCAAGAT  
GGATATCGCCTGGGTGATCCTGGCCATCAGCGTGCCCATCTCCTCTGCTCTGTCTGCTGACGGTGTGCTGCAT  
GAAGAGGAAGAAGAAGACCGCCAACCCGGAGAACAACCTGAGCTACTGGAACAACACCATCACCATGGACTACTT  
CAACAGGCATGCTGTGGAGCTGCCCAGGGAGATCCAGTCCCTTGAAACCTCTGAGGACCAGCTCTCAGAGCCCCG  
CTCCCCAGCCAATGGCGACTATAGAGACACTGGGATGGTCTTGTTAACCCCTTCTGTCAAGAAACACTGTTTGT  
GGGAAACGATCAAGTATCTGAGATCTAACTACAGCAGGCATCACTTTGCCATTCCGTATTTTTCTGTCTCTAAATT  
ATAAATATACAAATACATATATTATAAATATAACCTTTGTGTAACCCCTGACTTAATGAGAAACATTTTCAGCTTT  
TTTTCTATGAATTGTCAACATCTTTTTTACAAGTGTGGTTTAAAAAAAAAAAAAACTTTACAGAAATGATCTGTG  
GCTTTATAAAATAAAGGTATTTCTAAGCAAAGCAGTTGCATTGATTGCTTCTCTTAATAACTATCTTGAGCACC  
TGGGGATCCCAGGAACCCCTGGTCAGGTGAGGTAAGAGACTGACCTCCTGTAGAAGCTGAATGTTACAGTGCAAGC  
GCACGATTCTTTGAGTGATTCTTAAAGCTCTGGTTCTCTTGATTGGTGTGACCCATTTCCTCCCTTCTCATA  
CGCACACCTGTAAAGGGAACCTGGACCGCCTCAGGGGAAGACGGCAGACTCATGCACAGAGAAGGAAAAGGGAACA  
TCTCATACCTCTGAGGATGAGTACCCTGGAGCCTTATGACGGCACCATTGGATGTCATGTTAATTCATCCAA  
GTTGTGGATGGCAGGCAGGAGCATGGAGCCCTCAGGAATCCATGGAGGACATCAAGGCATCCCAAGGCCATATTC  
CCCTAACATTACTTCCACTGCTAACAACAGGACTGCCTTTCCCTGGTGGGAAAATGCTCCCTTTATGCCCATTC  
TGTATCCCTCCAACACCCACATCTGCATTAAACACCCGTGCCTTTCTCTTGAGAGGGTTTAGATGCAGATCCC  
GGCCCTGGAGCTTTAAAATGCTTGCCCTTCTTCTCAAGGATCAAATGTTTATTGGGGTTACAGCTTGTCTTCT  
CAAAAGGCCATGGTATCGTGCCCTGAGGAACATGTTTATCTAAGAAGCTTTGAGGTAGTAGAGCGATAATTTTT  
GAAACCTTCCCTCTGCAATCTTTAAAAAGAAAAAAGATTGCCCAAACAATCATTGAGGAGAAGACATCATT  
ATACTCCTACTTGGCACTGCAAACCTGCTCGCAGCACCAGCCGGTGGACTTGCCATCCAGCTCTCAGCTTCCACT  
GCTCCCTTGTTCGGCGCCGGCTGGCTGCCTCCCGTGCTGTGTCCAGCACGGCCAACAACGTCAGACCTCAGA  
GACGCCCAAGGGGCTTCAGAGGTGGCCGCTCTCTATTTTTCTTGATTGTGGCTGAGAGAGATGATTACTGCT  
TTGACACTTCTTTCTCTAAAAGAAAAATAGTTTGATAGTATATTTGAATATAGATGCTCTTATAGTCAGATTG  
GGAATTGAACTTGAATATTGGGTGATATGTTTGTGTGTGTGCTGTAGTCTATCATGACTTTTTTCTTTCTGCATT  
TTCTTTAAAAAAGATGGCCTTCAAAAGTGTGTCTCAATGTTGTATGAACCTCCTTCACATGAGTTC  
GGTGTGTGCTCTCTTCAAAGACTCTTCAACCCACAAAGAAGCAACTAAATGTTTCTTAAGTTTAAATTTCTAG  
CGTGTGTGTCTTACCTTTTTAACCTTACCATAATTTCTGTAACTGTTACATTTAATATACCAATGTGTGT  
AAGTATACAGAGAAAATCTGTTTGTAAAGTAAATTTATATATAATATGTAATCAAAGATACATATGTTATA



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**FIGURE 1258B**

TATACATATGTGGATGTATGACTTATTTTTCCTTATCCACAGATTTTCAGCTACCATGTATATATAAATAAACTTA  
TTTTATTAGCCAGAG

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**FIGURE 1259**

MKRSLQALYCQLLSFLLILALTEALAFAIQEPSPRESLQVLPSGTTPPGTMVTAPHSSTRHTSVVMLTPNPDGPPS  
QAAAPMATPTPRAEGHPPTHITISTIAATVTAPHSESSLSTGPAPAAMATTSSKPEGRPRGQAAPTILLTKPPGAT  
SRPTTAPPRTTTRRPPRPPGSSRKAGNSSRPVPPAPGGHSRSKEGQRGNPSSSTPLGQKRPLGKIFQIYKGNFT  
GSVEPEPSTLTPRTPLWGYSSSPQPQTVAATTVPSTSWAPTTTSLGPAKDKPGLRRAAQGGGSTFTSQGGTPDA  
TAASGAPVSPQAAPVPSQRPHHGDPQDGPSHSDSWLTVTPGTSRPLSTSSGVFTAATGPTPAAFDTSVSAPSQGI  
PQGASTTPQAPTHPSRVSESTISGAKEETVATLTMTDRVPSPLSTVVSTATGNFLNRLVPAGTWKPGTAGNISHV  
AEGDKPQHRATICLSKMDIAWVILAISVPISSCSVLLTVCCMKRKKKTANPENNLSYWNNTITMDYFNRAVELP  
REIQSLETSEDQLSEPRSPANGDYRDTGMVLVNPFCQETLFVGNDQVSEI

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**FIGURE 1260**

**AT**GGCGGCGGCATTACGGGTGGCGGCGGTCTGGGGCAAGGCTCAGCGTTCTGGCGAGCGGTCTCCGCGCCGCGGTCTCGCAGCCTTTGCAGCCAGGCCACCTCTGTTAACGAACGCATCGAAAACAAGCGCCGGACCGCGCTGCTGGGAGGGGGCCAAACGCGTATTGACGCGCAGCACAAAGCGAGGAAAGCTAACAGCCAGGGAGAGGATCAGTCTCTTGCTGGACCCTGGCAGCCTTTGTTGAGAGCGACATGTTTGTGGAACACAGATGTGCAGATTTTGGAATGGCTGCTGACAAGAATAAGTTTTCTGGAGACAGCGTGGTCACTGGACGAGGCCGAATCAATGGAAGATTGGTTTATGTCCTTCAGTCAGGATTTTACAGTTTTTTGGAGGCAGTCTGTCAGGAGCACATGCCAAAAGATCTGCAAAATCATGGACCAGGCCATAACGGTGGGGGCTCCAGTGATTGGGCTGAATGACTCTGGGGGAGCACGGATCCAAGAAGGAGTGGAGTCTTTGGCTGGCTATGCAGACATCTTTCTGAGGAATGTTACGGCATCCGGAGTCATCCCTCAGATTTCTCTGATCATGGGCCCATGTGCTGGTGGGGCCGTCTACTCCCCAGCCCTAACAGACTTCACGTTTCATGGTAAAGGACACCTCCTACCTGTTTCATCCTGGCCCTGATGTTGTGAAGTCTGTCACCAATGAGGATGTTACCCAGGAGGAGCTCGGTGGTGCCAAGACCCACACCACCATGTCAGGTGTGGCCACAGAGCTTTTGAAAATGATGTTGATGCCTTGTTGAATCTCCGGGATTTCTTCACTACCTGCCCCCTGAGCAGTCAGGACCCGGCTTCCGTCCGTGAGTGCCACGATCCCAGTGACCGTCTGGTTCCTGAGCTTGACACAATTGTCCCTTTGGAATCAACCAAAGCCTACAACATGGTGGACATCATACACTCTGTTGTTGATGAGCGTGAATTTTTTGAGATCATGCCCAATTATGCCAAGAACATCATTGTTGGTTTTGCAAGAATGAATGGGAGGACTGTTGGAATTGTTGGCAACCAACCTAAGGTGGCCTCAGGATGCTTGGATATTAATTCATCTGTGAAAGGGGCTCGTTTTGTCTCAGATTCTGTGATGCATTCAATATCCACTCATCACTTTTGTTGATGTCCCTGGCTTTCTACCTGGCACAGCACAGGAATACGGGGGCATCATCCGGCATGGTGCCAAGCTTCTCTACGCATTTGCTGAGGCAACTGTACCCAAAGTCACAGTCATCACCAGGAAGGCCTATGGAGGTGCCTATGATGTCATGAGCTCTAAGCACCTTTGTGGTGATACCAACTATGCCTGGCCACCGCAGAGATTGCAGTCATGGGAGCAAAGGGCGCTGTGGAGATCATCTTCAAAGGGCATGAGAATGTGGAAGCTGCTCAGGCAGAGTACATCGAGAAGTTTGCCAACCCCTTCCCTGCAGCAGTGCGAGGGTTTGTGGATGACATCATCCAACCTTCTTCCACACGTGCCGAATCTGCTGTGACCTGGATGTCTTGGCCAGCAAGAAGGTACAACGTCTTGGAGAAAACATGCAAATATTCCATTG**TAA**

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**FIGURE 1261**

MAAALRVAAVGARLSVLASGLRAAVRSLCSQATSVNERIENKRRTALLGGGQRRIDAQHKGKLTARERISLLLD  
PGSFVESDMFVEHRCADFGMAADKNKFPGDSVVTGRGRINGRLVYVFSQDFTVFGGSLSGAHAQKICKIMDQAIT  
VGAPVIGLNDSSGGARIQEGVESLAGYADIFLRNVTASGVIPQISLIMGPCAGGAVYSPALTDFTFMVKDTSYLF I  
TGPDVVKSVTNEDVTQEELGGAKHTTTMSGVAHRAFENDVDALCNLRDFFNYLPLSSQDPASVRECHDPSDRLVP  
ELDTIVPLESTKAYNMVDIIHSVVDEREFF EIMPNYAKNII VGFARMNGRTVGIVGNQPKVASGCLDINSSVKGA  
RFVRFCDAFNIPLITFVDVPGFLPGTAQEYGGIIRHGAKLLYAF AEATVPKVTVITRKAYGGAYDVMSSKHL CGD  
TNYAWPTAEIAVMGAKGAVEIIFKGHENVEAAQAEYIEKFANPFPAAVRGFVDDIIQPSSTRARICCDLDVLASK  
KVQRPWRKHANIPL

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**FIGURE 1262**

GAGGCTATGGCGCTCAACAAGAATCACTCGGAGGGCGGCGGAGTGATCGTCAATAACACCGAGAGCATCCTAATG  
TCCTATGATCACGTGGAACACATTCAATGACATGAAGAACGTGCCAGAAGCCTTCAAAGGGACCAAGAAAGGC  
ACTGTCTACCTTACCCCTTACCGGGTCATCTTTCTGTCCAAGGGCAAGGATGCCATGCAGTCCTTCATGATGCCA  
TTTTATCTCATGAAAGACTGTGAGATCAAGCAGCCCGTATTTGGTGCAAACCTACATCAAGGGAACAGTGAAGGCG  
GAAGCGGGAGGTGGCTGGGAAGGCTCTGCTTCCTACAAGTTGACTTTACGGCAGGGGGCGCCATTGAGTTCGGA  
CAGCGGATGCTCCAGGTGGCATCTCAAGCCTCCAGAGGTGAAGTCCCCAGTGGAGCCTATGGCTACTCTTACATG  
CCCAGCGGGGCTATGTCTATCCCCCGCCAGTCGCCAATGGAATGTACCCCTGCCCTCCTGGCTACCCCTATCCA  
CCGCCCCCACCTGAGTTCTATCCAGGACCCCCCATGATGGACGGGGCCATGGGATACGTGCAGCCCCACCACCG  
CCCTACCCCTGGGCCCATGGAACCTCCGGTCAGCGGGCCCGATGTCCCCTCCACTCCTGCAGCCGAAGCCAAGGCC  
GCAGAAGCAGCCGCCAGCGCCTATTACAACCCAGGCAATCCTCACAACGTCTACATGCCACGAGCCAGCCGCCG  
CCACCTCCCTACTACCCACCGGAAGATAAGAAGACCCAGTAGGCCCTCCTGCCTCCCTGCCCTCCACCCCTCATCT  
CTCTACCCCTACCCCTCCCATCGGGGCTGTGCTGGGGCTTGGGGAGGGGAGGGGGCGCCTTGTTCTCCCTCCAGGT  
CTGATCATAAACAATTACCAGGAAGTAGCATTGTGGGACATTAGGGCCCCCGGCCCTCGGGAGAGGTGCCGCCAG  
CTTCCCATGCCAGCCCGGAGCCACAGTGCTGCCAGCGTACCTCCCTCACCGTCTGGGGCTCTTCTGGGAGCAC  
GGAGCATCCCCTGTTCTGTTTCACTCTCAGCTTCTCCCCTCGAAGGGACTCTCTGGCCACCTCCTCCACCGCAG  
TCCAGCTCCCTCAGTCTGGCACCCACTGCTACACTCAGCCTCATGAGCCACTTCAGACCAGCCAGGTGTCTTCCC  
GGGCCCTGCCAGACCTGCTCACATTCCCTCTGCTGGTCTGTGCTGGTCTCAGAAGGCCACCGCGCCCGCATTCC  
ACTCAGCCAGGGTCCAGCTGCAGCCCCCGCCACCCTTCCTTCCCTTCCCTGTCTGGGTCTGTTGTTGCCACCC  
TGTGTGACTTTTGAAGCTGTAAATGAGCTTCCAGGGCTTGGGTGGCGTCGGGGCAGGGCCGCCGAGGCTGGGAG  
GAAGCCCTTCTGCCTTTTGTGTTGTTTCTGGAATTTGCTTTCCCTCACCTCTCACTTCTCTAGAAAGGAGCTT  
CCTGACTGGAACCAGAGAATGCATGTCTGTCCACTTGGTGGCTGCTGGGTGGGGCCGGGAACAAGGGCCCCCTGAC  
CCTGTGTGCTGGCCGGGACCTGCCACCAGCCCCCAGCCTGCTTCTTCCCTTAAGCTTTGTGCCCTGGATGCG  
CTAACATTCACTCTTGTGTTGTCCTGGACTGGCCATGAAGTGAGGAGATGGTTATTTAAAGAGAATTCCCTATTT  
ATTTGACAAAAAATCCAGTTAATATATTAATGTGAAATAAACCCCTGTTTGCCCTCG

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**FIGURE 1263**

AGGCTCAGGATGAGATCCCAGCACTGTCCGTGTCCCGGCCCCAGACCGGCCTGTCCTTCCTGGGCCCTGAGCCTG  
AGGACCTGGAGGACCTGTACAGCCGCTACAAGAAGCTGCAGCAAGAGCTGGAGTTCCTGGAGGTGCAGGAGGAAT  
ACATCAAAGATGAGCAAAAGAACCTGAAAAAGGAATTTCTCCATGCCCAGGAGGAGGTGAAGCGAATCCAAAGCA  
TCCCGCTGGTCATCGGACAATTTCTGGAGGCTGTGGATCAGAATACAGCCATCGTGGGCTCTACCACAGGCTCCA  
ACTATTATGTGCGCATCCTGAGCACCATCGATCGGGAGCTGCTCAAGCCCAACGCCTCAGTGGCCCTCCACAAGC  
ACAGCAATGCACTGGTGGACGTGCTGCCCCCGAAGCCGACAGCAGCATCATGATGCTCACCTCAGACCAGAAGC  
CAGATGTGATGTACGCGGACATCGGAGGCATGGACATCCAGAAGCAGGAGGTGCGGGAGGCCGTGGAGCTCCCGC  
TCACGCATTTTCGAGCTCTACAAGCAGATCGGCATCGATCCCCCGAGGCGTCCATGTATGGCCACCTGGCT  
GTGGGAAGACCATGTTGGCAAAGGCGGTGGCACATCACACAACAGCTGCATTTCATCCGGGTCTGTTGGCTCGGAGT  
TTGTACAGAAAGTATCTGGGTGAGGGCCCCCGCATGGTCCGGGATGTGTTCCGCCTGGCCAAGGAGAATGCACCTG  
CCATCATCTTCATAGACGAGATTGATGCCATCGCCACCAAGAGATTTCGATGCTCAGACAGGGGCCGACAGGGAGG  
TTCAGAGGATCCTGCTGGAGCTGCTGAATCAGATGGATGGATTTGATCAGAATGTCAATGTCAAGGTAATCATGG  
CCACAAACAGAGCAGACACCCTGGATCCGGCCCTGCTACGGCCAGGACGGCTGGACCGTAAAATTGAATTTCCAC  
TTCTGACCGCCGCCAGAAGAGATTGATTTTCTCCACTATCACTAGCAAGATGAACCTCTCTGAGGAGGTTGACT  
TGGAAGACTATGTGGCCCGGCCAGATAAGATTTTCAGGAGCTGATATTAACCTCCATCTGTCAGGAGAGTGGAATGT  
TGGCTGTCCGTGAAAACCGCTACATTGTCTGGCCAAGGACTTCGAGAAAGCATAACAAGACTGTCATCAAGAAGG  
ACGAGCAGGAGCATGAGTTTTACAAGTGACCCTTCCCTTCCCTCCACCACACCACTCAGGGGCTGGGGCTTCTCT  
CGCACCCCCAGCACCTCTGTCCCAAAACCTCATTCCCTTTTTTCTTTACCCAGGATTGGTTTCTTCAATAAATAG  
ATAAGATCGAATCC

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**FIGURE 1264**

CTGGAAGAATTGCGGGCCGAAGTGGCTGGCTCATTTAAGATGAGGCTTCTGCTGCTTCTCCTAGTGGCGGCGTCT  
GCGATGGTCCGGAGCGAGGCCCTCGGCCAATCTGGGCGGCGTGCCCAAGAGATTAAAGATGCAGTACGCCACG  
GGGCGGCTGCTCAAGTTCCAGATTTGTGTTTCTGAGGTTATAGGCGGGTGTTTGAGGAGTACATGCGGGTTATT  
AGCCAGCGGTACCCAGACATCCGCATTGAAGGAGAGAATTACCTCCCTCAACCAATATATAGACACATAGCATCT  
TTCTGTGTCAGTCTTCAAACCTAGTATTAATAGGCTTAATAATTGTTGGCAAGGATCCTTTTGCTTTCTTTGGCATG  
CAAGCTCCTAGCATCTGGCAGTGGGGCCAAGAAAATAAGGTTTATGCATGTATGATGGTTTTCTTCTTGAGCAAC  
ATGATTGAGAACCAGTGTATGTCAACAGGTGCATTTGAGATAACTTTAAATGATGTACCTGTGTGGTCTAAGCTG  
GAATCTGGTCACCTTCCATCCATGCAACAACCTTGTTCAAATTCTTGACAATGAAATGAAGCTCAATGTGCATATG  
GATTCAATCCCAACCATCGATCATAGCACCACTATCAGCACTGAAAACCTCTTTTGCAATTAAGGGATCATTGCA  
AGAGCAGCGTGACTGACATTATGAAGGCCTGTACTGAAGACAGCAAGCTGTTAGTACAGACCAGATGCTTTCTTG  
GCAGGCTCGTTGTACCTCTTGAAAACCTCAATGCAAGATAGTGTTTCAGTGCTGGCATATTTTGGAATTCTGCA  
CATTCATGGAGTGCAATAATACTGTATAGCTTTCCCCACCTCCCAAAAATCACCCAGTTAATGTGTGTGTGTGT  
TTTTTTTTTAAGGTAAACATTACTACTTGTAACTTTTTTTCTTAGTCATATTTGAAAAAGTAGAAAATTGAGTTA  
CAATTTGATTTTTTTTTCCAAAGATGTCTGTAAATCTGTTGTGCTTTTATATGAATATTTGTTTTTTATAGTTTA  
AAATTGATCCTTTGGGAATCCAGTTGAAGTTCCCAAATACTTTATAAGAGTTTATCAGACATCTCTAATTTGGCC  
ATGTCCAGTTTATACAGTTTACAAAATATAGCAGATGCAAGATTATGGGGGAAATCCTATATTCAGAGTACTCTA  
TAAATTTTTGTGTATGTGTGTATGTGCGTGTGATTACCAGAGAACTACTAAAAAACCAACTGCTTTTTAAATCC  
TATTGTGTAGTTAAAGTGTGCATGCCTTGACCAATCTAATGAATTGATTAATTAACCTGGGCCTTTATACTTAACTA  
AATAAAAACTAAGCAGATATGA

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**FIGURE 1265**

GC GGCCGAAGTGGCTGGCTCATT TAAGATGAGGCTTCTGCTGCTTCTCCTAGTGGCGGCGTCTGCGATGGTCCGG  
AGCGAGGCCTCGGCCAATCTGGGCGGCGTGCCAGCAAGAGATTAGTGTTTCTGAGGTTATAGGCGGGTGTTTG  
AGGAGTACATGCGGGTTATTAGCCAGCGGTACCCAGACATCCGCATTGAAGGAGAGAATTACCTCCCTCAACCAA  
TATATAGACACATAGCATCTTTCCTGTCAGTCTTCAAAGTATTAGGCTTAATAATTGTTGGCAAGGATC  
CTTTTGCTTTCTTTGGCATGCAAGCTCCTAGCATCTGGCAGTGGGGCCAAGAAAATAAGGTTTATGCATGTATGA  
TGGTTTTCTTCTTGAGCAACATGATTGAGAACCAGTGTATGTCAACAGGTGCATTTGAGATAACTTTAAATGATG  
TACCTGTGTGGTCTAAGCTGGAATCTGGTCACCTTCCATCCATGCAACAACCTGTTCAAATTCTTGACAATGAAA  
TGAAGCTCAATGTGCATATGGATTCAATCCCACACCATCGATCATAGCACCACTATCAGCACTGAAAACCTCTTT  
TGCATTAAGGGATCATTGCAAGAGCAGCGTGACTGACATTATGAAGGCCTGTACTGAAGACAGCAAGCTGTTAGT  
ACAGACCAGATG



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**FIGURE 1266**

GCGGCCGAAGTGGCTGGCTCATTTAAGATGAGGCTTCTGCTGCTTCTCCTAGTGGCGGCGTCTGCGATGGTCCGG  
AGCGAGGCCTCGGCCAATCTGGGCGGCGTGCCCAGCAAGAGATTAAAGATGCAGTACGCCACGGGGCCGCTGCTC  
AAGTTCCAGATTGTGTTTCCTGAGGTTATAGGCGGGTGTTTGAGGAGTACATGCGGGTTATTAGCCAGCGGTAC  
CCAGACATCCGCATTGAAGGAGAGAATTACCTCCCTCAACCAATATATAGACACATAGCATCTTTCCTGTCAGTC  
TTCAAAC TAGTATTAATAGGCTTAATAATTGTTGGCAAGGATCCTTTTGCTTCTTTGGCATGCAAGCTCCTAGC  
ATCTGGCAGTGGGGCCAAGACCAGTGTATGTCAACAGGTGCATTTGAGATAACTTTAAATGATGTACCTGTGTGG  
TCTAAGCTGGAATCTGGTCACCTTCCATCCATGCAACAAC TTGTTCAAATTCTTGACAATGAAATGAAGCTCAAT  
GTGCATATGGATTCAATCCCACACCATCGATCATAGCACCACCT

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**FIGURE 1267**

CAATTAAGTTGCAGAGTTCTGATGGAGAGATATTTGAAGTTGATGTGGAAATTGCCAAACAATCTGTGACTATTA  
AGACCATGTTGGAAGATTTGGGAATGGATGATGAAGGAGATGATGACCCAGTTCCTCTACCAAATGTGAATGCAG  
CAATATTAAAAAAGGTCATTTCAGTGGTGCACCCACCACAAGGATGACCCCTCCTCCTGAAGATGATGAGAACA  
AAGAAAAGCGAACAGATGATATCCCTGTTTGGGACCAAGAATTCCTGAAAGTTGACCAAGGAACACTTTTTGAAC  
TCATTCTGGCTGCAAACTACTTAGACATCAAAGGTTTGCTTGATGTTACATGCAAGACTGTTGCCAATATGATCA  
AGGGGAAAACTCCTGAGGAGATTCGCAAGACCTTCAATATCAAAAATGACTTTCCTCTTTTTTGTAAAGCAATG  
TCTGCCTAGTTTATTGTCCAGTTAACTTTAGTGACCTTTTAAAAGTTGGCATTGTAAATAAAACAACCTTGCAAAA  
AAGTTTTCTGGAATAGAATTAACAAAATATTATCTTTATTTCATGAGTTGGAACTGGAAAAAGGCTTCTTGAAGT  
AAATGTTCTGAGTGGAGCTACTAGGATGTCTCCAGCCTCCTGCAGTCAAGGAGTACCACTGTATTGATTAGCCT  
GTATGTAGCAGGGCTCCCTTCATTGCATCTGAGGACTTGTTTTCTTTTTCTTTATTTTTAATCCTCTTAGTTTTA  
AATATATTGCCTAGAGACTCAGTTACTACCCAGTTTGTGGTTTTTTGGGAGAAATGTAACCTGGACAGTTAGCTTT  
TCAATTAAAAAGACACTTAACCCATGTGGGATGTCATCTTTTTATAATTAGTGTTCCTCATGTGGAGAAAATTATT  
CACACTACTTGTCATGTAAAGAATAATTTAACTTTTAACATTAAATATGTGGTAAAAACCCAGAAAGCATCCATCA  
TGAATGCAAGATACTTTCAATAAAAAAGTAAGTTATATAGTAGGTAGTTAAGTTTGCTTTTGTGGACTTAAATGTG  
TCTCTTCACTTAAATGGGTTGAATGTGTATATATTTGTTTCAGCTTGAAAAGACTTAGTTTATATCCTAGCTCACT  
GGAGGCTGCTGACATAACCATAACTTCTGTCCCTTCTAATTGTCAATTTATATGCCTAACTGGAGCTAGTACTTTA  
ATTCTTAACACAAAAATTACTCTGCCATTGTTTCCAGCTTCCCTCCTACAATAGAATGAAGTTTTTTTGATGGCTT  
GAGATGGCTCACAAATTTTGATTTTTTTTTCTTCCTTGCTGCTCCCTTTTTTCTCCTTGCTTTTCCAGTTAACAT  
CTATATTACATGTAATCTTGTCTTCTTTCACATTCACTGAGTTGTTTCAGGCTCAGATCATCCCTTGACAGTAG  
TTTGCTTTCATCTCACCTTTTCATTTGTCCCAAATTCACCTTATTTAATAAAGTCCCATATGTTGTCTCACTTAA

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**FIGURE 1268**

CAATTAAGTTGCAGAGTTCTGATGGAGAGATATTTGAAGTTGATGTGGAAATTGCCAAACAATCTGTGACTATTA  
AGACCATGTTGGAAGATTTGGGAATGGATGATGAAGGAGATGATGACCCAGTTCCTCTACCAAATGTGAATGCAG  
CAATATTAAAAAAGGTCATTCAGTGGTGCACCCACCACAAGGATGACCCCTCCTCCTCCTGAAGATGATGAGAACA  
AAGAAAAGCGAACAGATGATATCCCTGTTTGGGACCAAGAATTCCTGAAAGTTGACCAAGGAACACTTTTTGAAC  
TCATTCTGGCTGCAAACTACTTAGACATCAAAGGTTTGCTTGATGTTACATGCAAGACTGTTGCCAATATGATCA  
AGGGGAAAACTCCTGAGGAGATTCGCAAGACCTTCAATATCAAAAATGACTTTACTGAAGAGGAGGAAGCCCAGG  
TACGCAAAGAGAACCAGTGGTGTGAAGAGAAGTGAAATGTTGTGCCTGACACTGTAACACTGTAAGGATTGTTCC  
AAATACTAGTTGCACTGCTCTGTTTATAATTGTTAATATTAGACAAACAGTAGACAAATGCAGCAGCAAGTCAAT  
TGTATTAGCAGAAATATTGTCCCTCATTGCATGTGTAGTTTGAGCACAGATCCCAAACCTTACGGCCAAGTTTCTTC  
TAGTATGATGGAAAGTTTCTTTTTTCTTTGCTCTGAATAAACTGAACTGTGGGTTCTCTATAAGTGGCATTTTG  
GGCTTTCCCTCTTTTTTGTAAGCAATGCTCTGCCTAGTTTATTGTCCAGTTAACTTTAGTGACCTTTTAAAAGTT  
GGCATTGTAAATAAAACAACCTTGCAAAAAAGTTTTCTGGAATAGAATTAACAAAATATTATCTTTATTCATGAGT  
TGGAAACTGGAAAAAGGCTTCTTGAAGTAAATGTTCTGAGTGGAGCTACTAGGATGTCTTCCAGCCTCCTGCAGT  
CAAGGAGTACCACTGTATTGATTAGCCTGTATGTAGCAGGGCTCCCTTCATTGCATCTGAGGACTTGTTTTCTTT  
TTCTTTATTTTTAATCCTCTTAGTTTTAAATATATTGCCTAGAGACTCAGTTACTACCCAGTTTGTGGTTTTTTG  
GGAGAAATGTAACCTGGACAGTTAGCTTTTCAATTAAAAAGACACTTAACCCATGTGGGATGTCATCTTTTTATAA  
TTAGTGTTCCTCATGTGGAGAAAATTATTCACACTACTTGATGTAAAGAATAATTTAACTTTTAACATTAAAATA  
TGTGGTAAACCAGAAAGCATCCATCATGAATGCAAGATACTTTCAATAAAAAGTAAGTTATAT

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**FIGURE 1269**

MPSIQLQSFEDGEIFAVDVEIAKQSVTIKTTLEDLGMDDEGDDPVPLPNVNAAVLKKVIQWCTHHKDDPPPPEDDE  
NKEKQTDDIPVWDQEFLLKVAQGTLFELIRAANYLDIKGLLDVTCKTVANMIKGKTPEEIRKTFNIKNDFTEEEEE  
QVRKENQWCEEK

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**FIGURE 1270**

GGTGGGTTTATCTCAAGGCCTGAGTAGCCGGTAACAAACGAGGGTTCCCGGGATTGGACCGACGCACC**ATG**CCTC  
TGCGACTTGATATCAAAAGAAAGCTAACTGCTAGATCTGATCGAGTTAAGAGTGTGGATCTGCATCCTACAGAGC  
CATGGATGTTGGCAAGTCTTTACAATGGCAGTGTGTGTGTTTGAATCATGAAACACAGACACTGGTGAAGACAT  
TTGAAGTATGTGATCTTCTGTTTCGAGCTGCAAAGTTTGTGCAAGGAAGAATTGGGTTGTGACAGGAGCGGATG  
ACATGCAGATTAGAGTGTTCATTACAATACTCTGGAGAGAGTTCATATGTTTGAAGCACACTCAGACTACATTC  
GCTGTATTGCTGTTTCATCCAACCCAGCCTTTCACTTAAGTAGCAGTGATGACATGCTTATTAAGCTCTGGGACT  
GGGATAAAAAATGGTCTTGCTCACAAGTGTGTTGAAGGACACACCCATTATGTTATGCAGATTGTGATCAACCCCA  
AAGATAACAATCAGTTTGCCAGTGCCTCTTTGGACAGGACTATCAAGGTGTGGCAGTTGGGCTCTTCGTCACCAA  
ACTTCACCTTTGGAAGGACATGAGAAAGGCGTGAATTGCATTGATTACTACAGTGGTGGGGACAAGCCATACCTCA  
TTTCAGGTGCAGATGACCGTCTTGTTAAATATGGGATTATCAGAATAAAACATGTGTGCAGACACTGGAAGGAC  
ATGCCCAAAATGTGTCTTGTCAGCTTTTCATCCTGAGTTGCCAATCATTATCACAGGTTTCAAGATGGAACAG  
TACGTATTTGGCATTCAAGCACCTACCGGCTTGAGAGCACACTGAATTATGGAATGGAGAGGGTATGGTGCCTGG  
CCAGTCTAAGAGGGTCAAACAATGTGCTTTGGGCTATGATGAAGGGAGCATCATTGTTAAGCTTGGTCGGGAGG  
AACCTGCCATGTCCATGGATGCCAATGGAAAGATAATTTGGGCCAAGCATTGAGAAGTCCAGCAGGCCAACCTAA  
AAGCAATGGGAGATGCTGAAATTAAAGATGGTGAAGATTGCCACTGGCAGTAAAGGATATGGGCAGTTGTGAAA  
TATACCTCAGACTATTACAGACAATCCTAATGGGCGGTTTGTGGTGGTGTGTGGTGTATGGGGAGTATATCATCT  
ACACAGCAATGGCATTGAGAAACAAGAGCTTTGGATCTGCTCAGGAGTTTGCATGGGCCACGATTCTTCAGAGT  
ATGCAATAAGAGAGAGCAACAGCATTGTAAAGATATTTAAGAACTTTAAGGAAAAAAATCATTTAAACCAGATT  
TTGGAGCAGAAAGTATCTACGGCGGCTTCTTATTGGGAGTCAGATCTGTAAATGGCTTAGCCTTCTATGACTGGG  
ACAATACAGAACTCATACGAAGAATTGAAATTCAGCCCAAACATATTTTCTGGTCTGACTCTGGAGAGCTAGTCT  
GTATTGCTACTGAGGAATCATTTTTTATCCTTAAGTATCTGTCAGAAAAAGTCTTGGCTGCACAGGAAACACATG  
AGGGAGTTACTGAAGATGGCATTGAAGATGCCTTTGAGGTTCTTGGTGAGATTCAGGAAATTGTGAAAACAGGGC  
TTTGGGTAGGCGATTGCTTCATTTACACAAGTTCTGTGAACAGATTAAATTATTATGTTGGAGGAGAAATAGTCA  
CCATTGCCCACCTTGACAGGACGATGTATCTCCTAGGCTACATTCCTAAAGACAACAGGCTTTATCTGGGGGATA  
AAGAATTGAACATCATTAGCTATTCCCTGCTGGTTTTCAGTCTTGAATACCAGACAGCTGTCATGCGGAGGGACT  
TTAGCATGGCTGATAAGGTCTTCCCTACCATTCCAAAAGAACAGAGGACCAGAGTTGCACACTTTTTGGAAAAGC  
AGGGCTTCAAGCAGCAAGCTCTTACAGTATCCACAGATCCTGAGCATCGTTTTGAGCTTGCTCTTCAGCTTGGAG  
AGTTAAAAATTCATACCAGTTAGCAGTGAAGCAGAGTCAGAACAGAAGTGGAAACAACCTTGCTGAACCTGCCA  
TTAGTAAATGTCAGTTTGGCCTAGCCCAGGAGTGCCTGCATCATGCACAGGATTATGGGGGCTGCTGCTTTTGG  
CCACTGCCTCTGGAAATGCTAATATGGTGAACAAGCTAGCAGAGGGTGCAGGAGAGATGGCAAAAATAATGTGG  
CATTATGAGCTACTTTTTACAGGGCAAGGTTGATGCCTGCCTAGAGCTCTTAATTAGAAGTGGACGGCTGCCAG  
AAGCTGCCTTCTTGGCCCGAATTACTTACCCAGTCAGGTTTCAAGGGTAGTGAACTCTGGAGAGAGAATCTCT  
CAAAAGTCAATCAGAAAGCAGCAGAATCCCTTGCTGACCCAACAGAGTATGAAAACCTGTTCCCTGGATTAAAG  
AAGCCTTTGTTGTTGAAGAATGGGTGAAGGAAACACATGCTGATCTGTGGCCAGCCAAAACAATACCCACTTGTCA  
CGCCAAATGAAGAGAGAAATGTCATGGAAGAGGGGAAAAGACTTTAGCCCTCAAGATCTACAGCTCAACAGGAAC  
TTGATGGGAAACCTGCTTCTCCTACTCCGTTATTGTGGCCTCCACACAGCCAACAAAGAAGAAAAGAGTTTAC  
TCGAAGTAGAAGTAGATTTGGATAATTTGGAATTAGAAGATATTGACACAACAGATATCAATCTGGATGAAGATA  
TTTTGGATGAT**TGA**CTGTAATGCTTTCCATTACCTGACTAAACAGATCATTATTATATATAGGTATTGATTGCT  
ACCCTGACCACAGTGCTTTGGACTATGAGAACTTCTTAGATTTTTATATGTAAATGCTGTGGACCACTGGGAGC  
ACAATGCCCACATCATCTTAAGAAGAGTTTATGTGCAGCATTTAAATCACTGTGTTTTCTTGTTAACTAAACA  
GACATGGGCTTTGATTTTTTTCATACTATTAGACCATATCTCATAAAACCTTTGAATTAACAAAAA

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**FIGURE 1271**

MPRLRLDIKRKLTARSDRVKSVDLHPTPEPWMLASLYNGSVCVWNHETQTLVKTFEVC DLPVRAAKFVARKNWVVTG  
ADDMQIRVFNYNTLERVHMF EAHSDYIRCI AVHPTQPFIL TSSDDMLIKLWDWDKKWSCSQVFEGH THYVMQIVI  
NPKDNNQFASASLDRTIKVWQLGSSSPNFTLEGHEKGVNCIDYYSGGDKPYLISGADDRLVKIWDYQNKTCVQTL  
EGHAQNVSCASFHPELPIIITGSEDGTVRIWHSSTYRLESTLNYGMERVWCVASLRGSNNVALGYDEGSIIVKLG  
REEPAMSM DANGKI IWAKHSEVQQANLKAMGDAEIKDGERLPLAVKDMGSCEIYPQTIQHNPNGRFVVVCGDGEY  
IIYTAMALRNKSFSGSAQEF AWAHDSSEYAIRESNSIVKIFKNFKEKKSFKPDFGAES IYGGFLLGVRSVNGLAFY  
DWDNTELI RRIEIQPKHIFWSDSGELVCIATEESFFILKYLSEKVLAAQETHEGVTE DGI EDAFEVLGEIQEIVK  
TGLWVGDCFIYTSSVNRLNYYVGGEIVTIAHLDR TMYLLGYIPKDNRLYLGDKELNIISY SLLVSVLEYQTAVMR  
RDFSMADKVLPTIPKEQRTRVAHFLEKQGF KQQALT VSTDPEHRFELALQLGELKIAYQLAVEAESEQKWKQLAE  
LAISKQCFGLAQECLHHAQDYGGLLLLATASGNANMVNKLAE GAERD GKNNVAFMSYFLQ GKVDACLELLIRTGR  
LPEAAFLARTYLP SQVSRVVKLWRENLSKVNQKAAESLADPTEYENLFPGLKEAFVVEEWVKETHADLWPAKQYP  
LVTPNEERNVMEEGKDFQPSRSTAQQELDGK PASPTPVIVASHTANKEEKS LLELEV DLDNLELEDIDTTDINLD  
EDILDD

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**FIGURE 1272**

ATGCAGCGCTACAATTTTCATTATCTTAAGTACATTGTACATTTCTACAGAACCTGTGATTATTCTCGCATGATA  
AGGATGGTACTTGCAATATGGTGAATTACTACTGTTGACAGTTTCCGCAGAAATCCTATTTTCAGTGGACCAACATT  
GTGGCATGGCAGCAAATGCCAACATTTTGTGGAATAGCAGCAAATCTACAAGAGACCCTGGTTGGTTTTTCGTTT  
TGTTTTCTTTGTTTTTTCCCCCTTCTCCTGAATCAGCAGGGATGGAAGGAGGGTAGGGAAGTTATGAATTACTCC  
TTCCAGTAG

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**FIGURE 1273**

MQRYNFHYLKYIVHFYRTCDYSRMIRMVLAYGELLLLTVSAEILFQWTNIVAWQQMPTFCGIAANLQETLVGFSE  
CFLCFFPLLNNQGWKEGREVMNYSFQ



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**FIGURE 1274**

AAAGCTCGCGCGGGGGAAGCGGGGCTGTAGCTGGGCAGGGAGAGGGCGGACGAAATCGGTAGCGATCTCGGCTGC  
GGCGCTGCCGCGAGCTGCCCGGCCCGCGGGGCGCGCCCTGACCCTTCATCTTTGGGCAGGCTCGAGGGCGCGCGCA  
CGGTTGGCGTTCTGGGGCCTCAAACCTCTGGGCCCTTGACCGGGCAGGCCGCGTCTCCCCGGGTGTGAGTCCACCG  
GGACCCGGCCGCGCCCTAAGCGCGGGCGCCACAGAAGCGGGCGGCCCGAAGACGCGCTCCTGGCTCGGCCCGAC  
AGCCTCGCTTGCGCCGCGAGTTCTTCTGCAGCCGAAGGCGGTTGTTCTTTTAAAGAATTATTGAAGACGAAGGTTT  
TTTTCTTTTATTTTTTAAATGGCTTTACAGAATCTTAAATAGAATACAGTTTGACATGACGGCAAAAAATGTTG  
GTTTGACTTCCACAAATGCAGAAGTAAGAGGATTTATAGATCAGAATCTCAGTCCAACAAAAGGCAACATTTTCAT  
TTGTTGCATTTCCAGTTTCCAATACCAACTCACCTACAAAGATTTTACCAAAAACCTTAGGACCAATAAATGTGA  
ATGTTGGACCCCAATGATTATAAGCACACCACAGAGACTAACCAGTTTCAGGAAGTGTCTGATTGGGAGTCCAT  
ATACCCCTGCACCAGCAATGGTTACTCAGACACACATAGCAGAAGCTACTGGCTGGGTCCCTGGTGATAGAAAAC  
GGGCTAGAAAATTTATAGACTCTGATTTTTTCAAGTAAACGAAGCAAAAAAGGAGATAAAAAATGGGAAAGGCT  
TGAGACACTTTTCAATGAAAGTGTGTGAGAAAAGTTCAACGAAAAGGTACAACATCGTACAATGAAGTCGCTGATG  
AGCTGGTGTGAGAGTTACCAATTCAAATAACCATTTGGCTGCTGATTTCGGCTTATGATCAGAAGAACATTAGGC  
GAAGAGTTTATGATGCTTTAAATGTGCTAATGGCAATGAACATAATTTCAAAGGAAAAAAGAAATCAAGTGGA  
TTGGCCTGCCTACCAATTCTGCTCAGGAATGTCAGAATCTGGAGATAGAGAAGCAGAGGCGGATAGAACGGATAA  
AGCAGAAGCGGGCCAGCTGCAAGAACTTCTCCTACAGCAAATCGCTTTCAAAAACCTGGTACAGAGAAATCGAC  
AAAATGAGCAGCAAAACCAGGGCCCGCGGCTCTGAAGTCTACCAATTCAGCTGCCATTCATAATCATCAATACAA  
GCAGAAAAACAGTCATAGATTGCAGCATCTCCAGTGACAAGTTTGAGTATCTTTTCAATTTTGACAACACCTTTG  
AGATCCATGATGACATAGAAGTACTAAAGCGGATGGGAATGTCGTTTGGCCTGGAGTCAGGCAAATGCTCTCTGG  
AGGATCTGAAACTTGCGAAATCCCTGGTGCCAAAGGCTTTAGAAGGTTATATCACAGATATCTCCACAGGACCTT  
CTTGTTTAAATCAGGGACTACTTCTGAAGTCTACCCAATCAGTTTCAAATTTAGACCTGACCACTGGTGCCACCT  
TACCCAGTCAAGTGTAACCAAGGTTATGCTTGATGCAGAAGTGGCCTTAGCAACTGGGCAGTTCTTGCCCC  
CAAACAGTCACCAAGTCCAGCAGTGGCGCCTCTCACTGCTCCGAGTCCCGAGGCGAGACCCCTGTTGTTCAATG  
ATGAAGATGAGGAAGATGATGAGGAGGATTCCTCCTCCCCAGAATAAAGACAAGAGAAAGCCTACGTTTCAATAT  
GTGATGCTCATGTGTGTTTGTAGTGTGAGCTCTTGTTTTTGAAATGATTGCTTCAGTCTTTGCCTTTGTTTGCAC  
TGTGTGTTTCAAGTAAAACCTAGAGAAACACAATAAGCAAATCACATGAAGGCTGAGATGATTGAGATGAAAGTTAA  
CATAGTGTGAATGAAAGTCTGGCCAACAGAGCAGTAGATGATATAACAAAGAAAGCATGCTTTCTGAGGAGATAG  
TGGGGATAATCCCTGAAGAGTTGGCAGTGTGAGTGCAACTCATTTATCTTCTGTGAGGTGGGATTTTTGTGTTCC  
TCACACCCATGTAATTATCTTAGAATTGAGATTGCTACACGGAGCAGTCCTTGACGATCGTGTCTGACGTTT  
CTCTTCCTTGCTGGACTGCCTTTGACAAGGCAGAAATGAACATGAAAAGTCCCCAGGAGAGGGGAGCTGTGTAG  
TGAGGGATACTGAGGGCAGTCCCTGTGGCTGAGGGGCACAGATTGAACTGCTGAACTAGTTGGAGGTCTAGATGAG  
GTGCTTTACGCATCAGCTGCCTTAGACAGCTTCTAGAAAGGAGCGAGCGCTACTTCTTAAGTACTTAAGTGACAT  
TTAGATAATTTATAGTAAAACCTGAAATTATTATTAGCCAATGCATTGGTGATAGAAATTTACTAGGGCTACTTCT  
GGAAGCCAAAATAGAATAGCATTTCATGTGCATTAAATACTTTGCCAGCACTGCCTTTGCCAGCATCCTAAATC  
TGGAGTTTTACAAAGAAGGAAACTGTATCTTTAGGTTAATCAAAGCTATGCATTTTCATATAGCTTTTTTCATTTAA  
AACAAGACAAAAGAAACAAATTCCTATGACCAAATTGCTTGCTACAGTTCCCTGCAGTAATTGTATGATCTCACC  
CAGTGTGCAATTTGTGAAAATGAACCAAATGTCATTACTTTTGTCTTAAAGAAAAGTCTATTTCAAGAATATGAA  
CAGCAGTG

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**FIGURE 1275**

ACACACACTCCCGCTTGGGCCCTCCTCTCTCTCTCCGGCTCCATTTTCTCCGCCGCCGGGGGCCGGGGTCTCCTGT  
GGGGGGCCAGCCGGTATCCAGGTCTCCCTTCAGTGCCGGGGTGAACCCCCGGGGGAGCCGAGAGCCGGGGGCA  
GACGGGCGGGGGTTGGGGCGGAGGGAGCAGCGCCCCAGCGAGTTTGTGGGGAGAAGTAACCAAGCGGGGGAGG  
GGCTGAGCAGGGAGGGGGCCTCAGGGCCCCCCCCAGCTATGGACTAACGGCTACTGGGGCCGCTCCTCCAGGC  
GGGGCCCCGGGGGGGGCCTGGGATTGGTGAGTGGGGAGCCTGGGGGCCCTGGCGAGCCTCCTGGTGCGGAGACCC  
CGGTGGGGGTAGCGGGGGGTTCGCCGGGAGGCCGAGGGAAGCAAGACATCGGGGACATTCTGCAGCAGATAATGAC  
CATCACCAGACCAGAGCCTGGACGAGGCCAGGCCAAGAAACACGCCCTAAACTGCCACCGAATGAAGCCTGCTCT  
CTTTAGCGTCTGTGTGAAATCAAGGAGAAAACCGGCCCTCAGCATTTCGGAGCTCCCAGGAGGAGGAGCCGGTGGA  
CCCACAGCTGATGCGCTTGGACAACATGCTTCTGGCAGAGGGTGTGGCTGGGCCCGAGAAAGGGGGCGGCTCAGC  
AGCAGCAGCTGCAGCCGCTGCAGCCTCTGGTGGTGGCGTGTCCCCTGACAACCTCCATCGAACACTCGGACTATCG  
CAGCAAACCTGCCAGATCCGTCACATATACCACTCGGAACTGGAGAAGTATGAGCAGGCATGTAATGAGTTTAC  
GACCATGTGATGAACCTGCTGAGGGAGCAGAGCCGCACCAGGCCCGTGGCCCCCAAAGAGATGGAACGCATGGT  
GAGCATCATCCATCGAAAGTTTTCAGCGCCATCCAGATGCAGCTGAAGCAGAGCACCTGCCAGGCCTATGATGATGCT  
GCGCTCCCGTTTCTTGATGCCAGACGAAAGCGCCGTAACTTCAGCAGACAGGCCACTGAGGTCCTAAATGAGTA  
TTTCTACTCCCACTGAGTAACCCATATCCTAGTGAGGAGGCCAAGGAGGAGCTTGCCAAGAAGTGTGGCATCAC  
CGTGTCTCAGGTCTCCAACCGGTTTGCCAACAAGAAAGATTGCTATAAGAAAAACATCGGAAAGTTCCAAGAGGA  
GGCAAACATCTATGCTGTCAAGACAGCCGTGTCAGTCAACCAGGGGGGCCACAGCAGCACCAGCTCCCCGACACC  
CCCTTCTCTGCAGGCTCTGGCGGCTCTTTCAATATCTCAGGATCTGGAGACATGTTTCTGGGGATGCTTGGGCT  
CAACGGAGATTCTTATTCTGCTTCCCAGGTGGCATCACTCCGACGCTCGATGGGGCCAGGGGGCTATGGGGATAA  
CCTCGGGGGAGGCCAGATGTACAGCCCACGGGAAATGAGGGCAAAATGGCAGCTGGCAAGAGGCTGTGACCCCTC  
TTCAGTGACATCCCCAACGGAGGGACCAGGGAGTGTTCACTCTGATACCTCCAACTGATCTTGCCCTCAGGGTC  
ACAGGGGTGGGGGCTCTCACAAGGCGACTCTTGAAGAGGACGCAGGCTTCCAGAGGACAAACCCCAATACAGGAG  
AAGCACAAAGACAGAGAAGGGCCAAATGGGGTTCATCCGCTCCCTAAATGAGACTGTCTGTGCTGGGGGTGCTAATTAC  
ATGGCAGGAAGAAATGGGGCCCCTAAGGGGAGTGTGGGGTCTGTCTCTCCCTTTTTTCCAACTTTTTCTCTCTCG  
CTTTCTTTCTTACACAGAAACATGCACATACCCAGAAACCTATTTTCTCAGACCCCTTTTTCTCCTCTGTCTTTC  
TCTCTCCCTCTCCACACCTCACACACACATACTCCCACTTGCAACTATTCTGTTTCTCTCCTGGGCTCCCCAC  
TTTCCCTTCCCCACCCCACTTGTAGGCTCTGGAATCTGGAGACGCCAGCCCTGCCAATCAGAGATGCCAAAAAT  
GGGGACATGACTTCTGGACAGAGGACATGGGACACGCCCCCATGCATCCCCACCCCTGCCCTCCAGACAGCTTA  
CTTACCTCATACGCAGCTCATCTTAAACCAATAGAATCGCTTGGTGGACGAGAGTGTCTGACTCAGATATCTACC  
TCGGAGGGAGTTTCTGCTACTTTAGGGAATTATTGACTGGGCTTTGGGGTTGAACTTTTTTTTTTTTTTTTTTT  
AAAGAAAGAAAAAGAAACCTGGGATCCATCTGTTTTTGTGTTGTTGTTGTTTTTGTGTTGTTGTTGTTGTTGTTG  
GTGGTGGTTCTTAATTTTTAAATTTAGTTTGGGGAAGTAGCTTGTTTTTTTTTTTTTTAAATAAATATGTTGATTTCT  
TGCTTTTTTTTTTATTCTTACTTTCCCATATTAGGGGTGATAGCCAAAGGGGTTCTGGTAAGAGAAAGGGGGACA  
AACAGAACTGGTAAAGAGGCCCCCTGGCTCCAGGCCTGTCCATCAGGAAGTAAATTTTACAGGGCACCAAGCTT  
TGCCCCCTAAAAATCATTAGGTGTTCTTTGTTCATGCAGGCAGGTTTCTGCCGCATTTGATGTGGAGGCAGTGAA  
GGGCTTGCCCTGCTGGCTCTCATCCCCCTTCTCCCAACAACCTTGGGCAGGGCTGGACTCAGTAATTTTGAGG  
AAATTGAAGATGCCATCTTCCCTGTGAGTGACATGTCTTAAATTTTTTAAAAAACTCTATTTGAAAATTGGAGG  
GGGAAGAAATGGGAAGGGAGTTATTGCCAAATATGTTAATTATGGGTGGGGTGCTTGATATGTATCTTCTCAA  
TTCCGCATAAATGAGGTATCTTTTTGTACACCAAAAAATCAAGGGGTAGGGAGAGGGAGGAGGTTGCAAAAAGCC  
AGATGTGGGGGAAAAAGTAAATCAACACTGTCCCATCCTCAGCCCTGAACCTTACCATCTGATCCCCCTCAGACAT  
TCTCAGGATTTTTACAAGACTGTGAGAGTGGGGAACCCCTCCCATTAAGATCCGGGCAGGACTGGGGACAGGTTG  
GAAATGTGATGGGTGGGGGGTGGGAGGCATGGGCCGGGGGCAGTTCTCTCCTCATTGTAAACTTGTGTAGTTT  
CACAGAAAAAATAATGCAGTTTTAAATAAAGAAATTTCTTT



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**FIGURE 1277**

MRGANAWAPLCLLLAAATQLSRQQSPERPVFTCGGILTGESGFIGSEGFPGVYPPNSKCTWKITVPEGKVVLNF  
RFIDLESDNLCRYDFVDVYNHANGQRIGRFCGTFRPGALVSSGNKMMVQMISDANTAGNGFMAMFSAAEPNERG  
DQYCGLLDRPSGSFKTPNWPDRDYPAGVTCVWHIVAPKNQLIELKFEKFDVERDNYCRYDYVAVFNGGEVNDAR  
RIGKYCGDSPPAPIVSEARNELLIQFLSDLSLTADGFIGHYIFRPKKLPTTTEQPVTTFPVTGLKPTVALCQOK  
CRRGTLEGNYCSSDFVLGTVITTTITRDGSLHATVSIINIYKEGNLAIQQAGKNMSARLTVVCKQCPLLRGLN  
YIIMGQVGEDGRGKIMPNSFIMMFKTKNQKLLDALKNKQC

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**FIGURE 1278**

GAACCGCCATCTTCCAGTAATTCGCCAAAATGACAAACACAAAGGGAAAGAGGAGAGCCACCCGATATATGTTCT  
CTAGGCCTTTTAGAAAACATGGAGCTGTTCCTTTGGCGACGTATATGCGAATCTATAAGAAAGGTGATATTGTAG  
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACA  
ATGTTACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG  
TGCGTATTGAGCACATTTAGCACTCTAAGAGCCGAGATAGCTTCCTGAAATGCATGAAGGAAAATGATCAGAAAA  
AGAAAGAAGCCAAAAGAGAAAGGTACCTGGGTTCAACTAAAGTTCCAGCCTGCTCCACCCAGAGAAGCACACTTG  
TGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTTATTCCTATGAATTCATGGCATTAATAGGTGTTAAAAA  
AAATAAATAAAGGACCTCTGGGCTA

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**FIGURE 1279**

MTNTKGKRRATRYMFSRPFRKHGAVPLATYMRIYKKGDIVDIKGMGTVQKGMPHKCYHGKTGRVYNVTQHAVGIV  
V NKQVKGKILAKRINVRIEHISHSKSRDSFLKCMKENDQKKKEAKEKGTWVQLKFQPAPPREAHFVRTNGKEPEL  
LELIPYEFMA

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**FIGURE 1280A**

CCGCGGGCGGGGCGGCTGGCGTTCACGTGACCCGGCGTCATTGGCTCGCTCGCGGAAGTAGTCCTACATTCGCG  
GTCAGCGCGGGTCTCCGGGCGCCCTGCAGGGCGGGCAGGCTGTGCCATCCCGCCGGACGTGGGATGGTGCAGC  
TGTACAACCTGCACCCGTTCCGGGTCGCAGCAGGTGGTGCCCTGCAAGCTGGAGCCGGACCGGTTCTGTGGCGGGG  
GGCGTGACGCGCTTTTCGTGGCGGCGGGCTGCAAGGTGGAGGCGTTCGCGGTGGCCGGCCAGGAGCTGTGCCAGC  
CGCGGTGCGCCTTCTCCACGCTGGGCGGGGTGTTGCGCCTGGCCTACAGCGAGGCTGGAGATTATTTGGTAGCAA  
TTGAAGAGAAAAACAAAGCTACATTTCTACGTGCTTATGTGAAGTGGAGAAATAAAAGGACTGAAAACCTCTCGTG  
TGTGTATCCGAATGATTGGGCATAATGTGGAGGGACCATTTCAGCAAAGCCTTCAGAGACCAGATGTACATTATTG  
AAATGCCGCTTTTCGGAGGCCCCCTTGTGCATTTCTGTGCTTGTGAAAGGAGACCTTCTCGTTGGCTGCACAA  
ATAAATTAGTCTTATTTAGTTTGAAGTACCAGATCAATTAATGAGGAATTCTCACTATTGGACTTTGAACGTTCTT  
TAATTATACACATAGATAATATCACTCCTGTTGAGGTTTCTTTTTGTGTTGGATATGTTGCTGTGATGTCAGACT  
TAGAAGTCTTAATCGTAAACTGGAGTCAGGCCCTAAAAATGGAGAGAGAGTTTACCACCATCCACATAAGACCA  
ACAATCGAATAAGACGGACAGAAGAAGGCATCAGTAATGAAATTTACAGCTTGAGTCAGATGATTTTGTCTATCT  
GCCAGAAGCCCCCTGGAACCTTCTTGGTGAAAAAAGTGAACAGTCTGGATTATCTGTTACACTGGAGTCTACGGGAT  
TAGCTGATGAAAAAGAAAAATATTCCCACCTTTCAGCACCTGCTCTATAGACGTTTTGCTCCTGATATTTCTGCTCT  
ATGTCTTGTCTGATGACATCAAGCTACATTCCCTCCAGCTGCTACCCATTTACCAGACCGGTTCTCTTACATCTG  
ATGGAAAAAATTTGTCTCAGGAAAAAGAAATTGCTGAGTCTCTTTTGCTTTTTCTCCTTACCTCATGTGGGCTATC  
TCTACATGGTTGTCAAATCTGTTGAATTGATGTCAGTCTACCAGTATCCTGAAAAGTCTCAGCAGGCAGTACTCA  
CGCCACAATTTTGCACGTCATTACAAGTAACAACCTGCAGTGTTCAGTGTGCGGTGCAGTGGCGGCGCAGCTC  
GTGAGGAGGACCCGTACATGGACACCACCTGAAGGCTTGCCACCTGTCAGTATGGATGTCTGTGCTTTAAGAA  
TACAGCTTTTCATAGGCTTGAAAGCCATCTGTCACTTTAAAAACCACATCATACTTTTGAATAAAGCAGAACCTG  
AAGCCATTCCAGAGAGAAGACAGTCACCCAAGAGGCTTCTTTGAGAAAAGATAACAGTGTAAATCAAAATAC  
CTCCTGTAGCTGAGGCTGGGTGGAATTTGTATATTGTGAATACGATCTCACCAGTGCAGCTGTACAAAGAGATGG  
TAGACTATAGCAATACCTATAAGACTGTCAAAACCCAGAGCTGCATTACCTTCTCAGTGAGGCTCATCTGTTAG  
TGCGAGCTGCCCTGATGGATGCCAGTCAGCTGGAACCTGGAGAGAAGGCAGAGCTTTTGGAAGCATTAAAGGAAA  
GCTGTGGGCACCTTGGGGACTGTTACAGCAGGCTTGACTCCAGCATTCTCATCTCACCTTGCCATACTATAAGA  
TGTCTGGTTTGTCTATGGCTGAAGTTCTGGCCCGCACGGACTGGACAGTAGAGGATGGATTACAGAAATACGAGA  
GAGGATTAATCTTTTACATTAATCATTCACTTTATGAAAACCTGGATGAAGAATTAAATGAAGAATTAGCAGCAA  
AAGTGGTTGAGATGTTTTATGTGGCTGAGCCAAAGCAAGTGCCCATATTCTCTGTAGTCTTCTATGAAGAATA  
TTAATCCTTTAACTGCCATGAGCTATCTAAGGAAGCTGGATACTTCTGGGTTTTCATCGATCTTAGTGACATTGA  
CCAAGGCAGCAGTGGCTCTGAAAATGGGAGATCTTGACATGCACAGAAATGAAATGAAAAGCCATTTCAGAGATGA  
AGTTGGTATGTGGCTTCATTCTGGAACCTCGGCTGTTGATTCAACAGAGAAAGGGACAGATTGTTCCAACCGAGC  
TTGCACTTCACTTGAAGGAACTCAGCCTGGATTGCTTGTGGCTTCAGTTCTGGGCTTGCGAGAAGAACAACAAAA  
TTGGAATTGAAGAAGCAGATTCTTTTTTAAGGTGCTTTGTGCTAAGGATGAAGATACAATTCCTCAGCTCTTGG  
TAGACTTTTGGGAAGCTCAGCTAGTGGCATGTCTCCAGATGTGGTACTTCAGGAACCTTTTTTCAAACCTCACAT  
CACAGTACATCTGGAGATTGTCTAAGAGGCAGCCTCCTGACACCACACCATTGCGAACATCGGAGGATCTGATAA  
ATGCCCTGTAGTCATTATGGCTTAATTTATCCATGGGTTTCACGTGCTAATATCATCTGATTCTTTAGCTGATAAAA  
ATTATACAGAAGATCTTTCAAATTTACAGTCTCTTATATGTGGTCCCTTCATTGACATAGCTTCCATTATTCCGT  
TCTTGGAGCCACTTTCAGAAGACACTATTGCGGCGCTCAGTGTCATGTTCTGTGTCGTACACGCTTGAAAGAGT  
ATGAACAGTGCATAGACATACTGTTAGAGAGATGCCCCGAGGCAGTCATTCCATATGCTAATCATGAACTGAAAG  
AAGAGAACC GGACTCTGTGGTGGAAAAAAGTGTGCTGAACTTTGTGAGAGAATAAAATGTGGTGGAGAGAAGT  
ATCAACTCTACCTGTCTATCATTAAAGAAACATTGTCAATTGTTGCTGTGGAAGTGAAGTGAAGGATTTTCATGA  
ATGTTCTCCAGAAAGATGGTACTGCAACATTTTTCTTGCCATATCTTCTCTATTGCAGTCGAAAGAAACCATTGA  
CTTAAAGGTATCATTTGAAAAATACCATAATGGCATTGAGACTGAATTTCTAAAAATTGAATGCCAAAGTACAA  
GTAGAGGAGTTTTTTATTTATATATACACACACACACACACACACACACATATATGATACAA  
ATGCTTTCAGGCTGCTTACCTTACCGTGTAGTGGTAACCTATTCACTTCTTAATTTATGACCTCAATCAATTTAAT  
TGTCTAGAATGTAAAAAGTCTTTAAGACATAAGAATTCCTCAAAGAAGCCATACATTTTTTAAGGTGGGGATTGA  
CTTTTATTCCAAGGAACAACATCAGTTCACTGTTGTTGGAGACATGACAATCATTTTTCATCCCAAGAACACTTTA  
AGGAAACATTTTACAAGTATGCTTGAAAGAATGTCACTAACTGGTCCAGAAATTTATCTTCTTGATTTTCCAGA

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**FIGURE 1280B**

TTTCTCTATGTTTTTGAGAAAGATGTTAATGTTTTGCCATGGTAAAAGATTTCAAACCTCATTTTTTTTGTTCCT  
TTTCTTGTTACTTTTAAGAAAACATGCTCTGTTTCTCTGAATCAAATGAAGTAGAAGTTTACAAAGCTAACTT  
TCTTCTTGCTAGCTATTAACATGATTTGTCAAATGCATGTTTTTTTCAGCCAAAGCCTTGTTTCCATTTTTGTT  
GATGTGTACTCTTGCTCTTTTAGCTAGAGTGTATGTGAAAATAAAGAAATACATCATTGTATTCACAAAAAAA  
AAAAAAAAAAAA



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**FIGURE 1281**

MVQLYNLHPFGSQQVVPCKLEPDRFCGGGRDALFVAAGCKVEAFVAVAGQELCQPRCAFSTLGRVLRLAYSEAGDY  
LVAIEEKNKATFLRAYVNWNRNKRTE NSRVCIRMIGHNVEGPFSKAFRDQMYIIEMPLSEAPLCISCCPVKGDLLV  
GCTNKLVLFLSKYQIINEEFSLLDFERSLIIHIDNITPVEVSFCVGYVAVMSDLEVLIVKLESGPKNGERVHHP  
HKTNNRIRRTTEEGISNEISQLESDDFVICQKPLELLGEKSEQSGLSVTLESTGLADEKRKYSHFQHLLYRRFAPD  
ISSYVLSDDIKLHSLQLLPIYQTGSILSDGKNLSQEKELLSLFCFFSLPHVGYLYMVVKSVELMSVYQYPEKSQQ  
AVLTPQFLHVITSNNLQCFTVRC SAAAAAREEDPYMDTTLKACPPVSM DVCALRIQLFIGLKAICHFKNHIILLTK  
AEPEAIPERRQSPKRLLSRKDTSVKIKIPVVAEAGWNLYIVNTISPVLKEMVDYSNTYKTVKTQSCIHLLSEA  
HLLVRAALMDASQLEPGEKAELLEAFKESCGHLGDCYSRLDSQHSHTLPYYKMSGLSMAEVLARTDWTVEDGLQ  
KYERGLIFYINHSLYENLDEELNEELA AKVVQMFYVAEPKQVPHILCSPSMKNINPLTAMSYLRKLDTS GFSSIL  
VTLTKAAVALKMGDLD MHRNEMKSHSEMKLVCGFILPRLLIQQRKGQIVPT ELALHLKETQPGLLVASVLGLQK  
NNKIGIEEADSFFKVLCAKDEDTIPQLLVDFWEAQLVACLPDVVLQELFFKLTSQYIWRLSKRQPPDTTPLRTSE  
DLINACSHYGLIYPVHVVISSDSLADKNYTEDLSKLQSLICGPSFDIASIIPFLEPLSEDTIAGLSVHVLCTR  
LKEYEQCIDILLERCPEAVIPYANHELKEENRTLWWKKLLPELCQRIKCGGEKYQLYLSSSLKETLSIVAVELELK  
DFMNVLPEDGTATFFLPYLLYCSRKKPLT

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**FIGURE 1282**

GGCACGAGGGCTTCTCCTGCGCCTCCTTTTTCGCCCAGCACTAGCGCCTTAGGCCAGCTCGGGGGATGTGAGAGCC  
GAAGCCCTTAGACTGCCAGGCACAGAGTCGGGTTCGGGATTTGTTCAGCCAAGCCTCGGCTCCAGCTCCGCAATCTC  
GGGACTCACCCGAGCGACCCAGGCCCGACGGCAAGTTTCGGGCGGGACGGCGGGCCGCGCGCTCAGGCTCAGCT  
TCGCTGCCCCGCCAGAAATGAATCCGGCCTCGGCGCCCCCTCCGCTCCCGCCGCTGGGCAGCAAGTGATCCAC  
GTCACGCAGGACCTAGACACAGACCTCGAAGCCCTCTTCAACTCTGTTCATGAATCCGAAGCCTAGCTCGTGGCGG  
AAGAAGATCCTGCCGGAGTCTTTCTTTAAGGAGCCTGATTTCGGGCTCGCACTCGCGCCAGTCCAGCACCGACTCG  
TCGGGCGGCCACCCGGGGCTCGACTGGCTGGGGGTGCCAGCATGTCCGCTCGCACTCGTTCGCGCGCTCCCTG  
CAGCTGGGCACCGGCGCGGTGCTGCGGGTAGCCCCGCGCAGCAGCAGCGCACCTCCGCCAGCAGTCTTACGAC  
GTGACCGACGAGCTGCCACTGCCCCGGGCTGGGAGATGACCTTCACGGCCACTGGCCAGAGGTACTTCCTCAAT  
CACATAGAAAAATCACCACATGGCAAGACCCTAGGAAGGCGATGAATCAGCCTCTGAATCATATGAACCTCCAC  
CCTGCCGTGAGTTCACACCAAGTGCCTCAGAGGTCCATGGCAGTATCCAGCCAAATCTCGTGATGAATCACCAA  
CACCAGCAGCAGATGGCCCCCAGTACCCTGAGCCAGCAGAACCAACCCCACTCAGAACCCACCCGAGGGCTCATG  
AGTATGCCCAATGCGCTGACCACTCAGCAGCAGCAGCAGCAGAACTGCGGCTTCAGAGAATCCAGATGGAGAGA  
GAAAGGATTGGAATGCGCCAAGAGGAGCTCATGAGGCAGGAAGCTGCCCTCTGTCGACAGCTCCCCATGGAAGCT  
GAGACTCTTGCCCCAGTTCAGGCTGCTGTCAACCCACCCACGATGACCCCAAGCATGAGATCCATCACTAATAAT  
AGCTCAGATCCTTTCTCAATGGAGGGCCATATCATTTCGAGGGAGCAGAGCACTGACAGTGGCCTGGGGTTAGGG  
TGCTACAGTGTCCCCACAACCTCCGGAGGACTTCCTCAGCAATGTGGATGAGATGGATACAGGAGAAAACGCAGGA  
CAAACACCCATGAACATCAATCCCCAACAGACCCGTTTCCCTGATTTCCCTTGACTGTCTTCCAGGAACAAACGTT  
GACTTAGGAACCTTGGAATCTGAAGACCTGATCCCCCTCTTCAATGATGTAGAGTCTGCTCTGAACAAAAGTGAG  
CCCTTTCTAACCTGGCTGTAAATCACTACCATTTGTAACCTGGATGTAGCCATGACCTTACATTTCTGGGCCTCTT  
GGAAAAAGTGATGGAGCAGAGCAAGTCTGCAGGTGCACCACTTCCCGCCTCCATGACTCGTGCTCCCTCCTTTTT  
ATGTTGCCAGTTTAAATCATTGCCTGGTTTTGATTGAGAGTAACTTAAAGTTAAACATAAAATAATATTCTATTTTC  
ATTTTCTGCAAGCCTGCGTTCTTGTGACAGATTATACAGAATTGTGTCTGCAGGATTGATTATGCAGAATACTTT  
TCTCTTTCTTCTCTGCTGCCCCATGGCTAAGCTTTATGGGTGTTAATTGAAATTTATACACCAATTGATTTTAAA  
CCATAAAAAGCTGACCACAGGCAGTTACTTCTGAGGGCATCTTGGTCCAGGAAATGTGCACAAAATTCGACCTGA  
TTTACAGTTTCAAAAACTGTATTGATGACAGTAGTACCAAATGCTTTAAAACTATTTAACTTGAGCTTTAAAAA  
TCATTGTATGGATAGTAAAAATTTACTGTATGGAATACAATGTAATTTTGAATCCAAAAA

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**FIGURE 1283**

MNPASAPPPFLPPPGQQVIHVTQDLDTDLLEALFNSVMNPKPSSWRKKILPESFFKEPDSGSHSRQSSTDSSGGHPG  
PRLAGGAQHVRSHSSPASLQLGTGAGAAGSPAQQHAHLRQQSYDVTDELPLPPGWEMTFTATGQRYFLNHIEKIT  
TWQDPRKAMNQPLNHMNLHPAVSSTPVPQRSMAVSQPNLVMNHQHQQQMAPSTLSQQNHPTQNPPAGLMSMPNAL  
TTQQQQQQKLRLQRIQMERERIRMRQEELMRQEALCRQLPMEATLAPVQAAVNPPPTMTPDMRSITNNSDPFL  
NGGPYHSREQSTD SGLGLGCYSVPTTPEDFLSNVDEMDTGENAGQTPMNINPQQTRFPDFLDCLPGTNVDLGTL  
SEDLIPLFNDVESALNKSEPFLLWL

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**FIGURE 1284**

CTTCCTCTTTCACTCCGCGCTCACGGCGGCGGCCAAAGCGGCGGCGACGGCGGCGCGAGAACGACCCGGCGGCCA  
GTTCTCTTCTCCTGCGCACCTGCCCCGCTCGGTCAGTCAGTCGGCGGCGCGCCCGGCTTGTGCTCAGACCTC  
GCGCTTGGCGCGCCAGGCCAGCGGCCGTAGCTAGCGTCTGGCCTGAGAACCTCGGCGCTCCGGCGGCGCGGGC  
ACCACGAGCCGAGCCTCGCAGCGGCTCCAGAGGAGGCGAGCGAGTGAGCGAGTCCGAGGGGTGGCCGGGCGAGGT  
GGTGGCGCGCGAAGATGGTTCGCCAAGCAAAGGATCCGTATGGCCAACGAGAAGCACAGCAAGAACATCACCCAG  
CGCGGCAACGTCGCCAAGACCTCGAGAAATGCCCCGAAGAGAAGGCGTCTGTAGGACCCTGGTTATTGGCTCTC  
TTCATTTTTGTGTCTGTGGTTCTGCAATTTTCCAGATTATTCAAAGTATCAGGATGGGCATGTGAAGTGACTGA  
CCTTAAGATGTTTCCATTCTCCTGTGAATTTTAACTTGAAGTATTCCTGATGTTTGATACCTGGTTGAAAACA  
ATTGAGTAAAGCATCCTGCCTCAGAATGACTTTCCTATCATGCTTCATGTGTGTCATTCCAAGGTTTCTTCATGAGT  
CATTCCAAGTTTTCTAGTCCATACCACAGTGCCTTGCAAAAAACACCACATGAATAAAGCAATAAAATTTGATTG  
TTAAGATACAGTAGTGACCCCTACTTATTCAGTCAATTAAGAGTAAGTTTTTTTATGTGGTTATTAAACAGTAT  
GAACAATTAGTCTAACTCTGCATAGACAGGGTCTAGATTTTGTAAACCCAAATGTATAACTGCAGTTAGCTTAA  
TTACAATTTGAAGTCTTGTGGTTTTTATATAGCTAGGCACCTTATTACTCTTTTGAAGTGAAGCACACTCCCTT  
ATAGGTTTCATGTAAGTGTCTCTGTAATAAGGTGCTTATAAATGGAACAACTACACAGCCTAGTTTGGCACAACCT  
TTAGCATCTAAAAAGTTTTTAAAGCTTCTAAATGTCTAATATAAAGGGAGATGCTTATAGCCACAACATCTATTT  
TACCAATATTGTTTTCCATTACACTACCTTGGATTTTGCATGAGTGAGTATAGTAACCCAAGATGCCATAAAAAA  
AACTTGATCGTTTTCTGACTTAATTAGTTACTGTGGTTTCACTAAAGCTACCGTGGTGGAGTGAAGTCAGTCAG  
GGAAGGTTTTGTTTATGTTACATTTATTTACCCAGAACTATTTTAAATATATCAAAGGGGTTTACTATGCCAAACAA  
AATTCATAGGGAATAACTGCTAAAAATGGATGCCTCATCAGAACATGCTGTTGAGTCCAATGTGCCATAAGACA  
TTTTAGCATGTTAAATAGCACTTTTAAATAGCAAAAAAAGGCACATCAACTGCGAAGTTATCCTTAGTTTGCAAT  
GCTTTTTCTAGATTAATGATTTTTTCAATCATTAGGGTACTAGACACATCAGCCTAAAGTGGCATCTGGAATTGAA  
TGGATTTACTGATAATGATCAGTCTTTAGTCTTCCCTTTGTTATATGACTTTTATAGGTTATGATTGATCAAATTT  
ACGTTTTACTAATGGTAAGGGTGAGGGTCTAGGGCAGGTTTTGGGTTTTCTAGTACTGTTGAAAAGTGAAGTA  
TTGGCTATTTGTATACTTAGCCATAACTTGGTGAAAAAAACCTGAGCAGTGTCTATGTATTAATGCGTTGGAAA  
GAAAGCTGCTTGTGTTTGCTTTGTTAATTGCCCTCAGGATATTTCTTTTAAATAAGCTGTTTTAAGAGGAACAGA  
AGGGAATCTGCTACCTAGTCTATACACAGCGTGAACCTCACAGGGGGCTTCTGATACCCTCAAACATGGAGAAC  
AGTAAGGGAGCAGAGTGGTTAAGGACTTTCAGGAACCTAACTATTCTGGAATAAGGAATGAATCAACTGACCTTG  
GGCAGCAGGTTTTTAACTAAATTGTTACTTGCTTTCTCAGCCAGTTAATCAGTCTCTGTACTTGTTCCTTTT  
TTGAAACAAGTGTCTTGGTTAACTAATTCTGTTTTATGGTTGTGCTAAATTCATAGCAGGTGCCTTATTCTTTGC  
TTTTAGTCAAACCATTCATATCAGAATTTTCTTGCTTTACTATAGATATTTGGCTTTAAGTTGTTGTTTGTGT  
TTTTAATGTACAATGTTCTGATAAATTGACTGTTAAATTGCTATAGCTAGCAATCATTTTACATATGTAAAAA  
ATTGCATTCCTTTTGTATTTTATGTGTAATTCACCAATTAAGTGCAGTTTATATTCAGGTTGGATTATGCATGTT  
TAGGTAAACGAAAGCTGTGTCTTACTTGATTTATCTTTAAAAATAAAGTTCCTGAATATTTGAAAAA  
AAAAAAAAAAAA

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**FIGURE 1285**

MVAKQRIRMANEKH SKNITQ RGNVAKTSR N APEEKASVGPWLLALFIFVVC GSAIFQIIQSIRMG M

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**FIGURE 1286**

GCATGAGGAGACGTGTAGGGGCCGGGTTTCGGCCCTGGTGAACCTCTCACCCGAGCGGTTTCTCTTTCCGGGACAAC  
ATGGCGCCGTCCACGCCGCTCTTGACAGXX  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXGGAATCTGGGAAGAATTGCAAAGTCTGTATCTTTAGTAAGGATGGGACCTTG  
TTTGCTGGGGCAATGGAGAAAAAGTAAATATTATCAGTGTCTACTAACAAGGGACTACTGCACTCCTTCGACCTC  
CTGAAGGCAGTTTGCCTTGAATTCTCACCCAAAAATACTGTCTGGCAACGTGGCAGCCTTACACTACTTCTAAA  
GATGGCACAGCTGGGATACCCAACCTACAACCTTTATGATGTGAAACTGGGACATGTTTGAAATCTTTCATCCAG  
AAAAAATGCAAAATGGTGTCCATCCTGGTCAGAAGATGAAACTCTTTGTGCCCGCAATGTTAACAATGAAGTT  
CACTTCTTTGAAAACAACAATTTTAACACAATTGCAATAAATTGCATTTGCAAAAAATTAATGATTTTGTATTA  
TCACCTGGACCCCAACCATAACAAGGTGGCTGTCTATGTTCCAGGAAGTAAAGGTGCACCTTCATTTGTTAGATTA  
TATCAGTACCCCAACTTTGCTGGACCTCATGCAGCTTTAGCTAATAAAAGTTTCTTTAAGGCAGATAAAGTTACA  
ATGCTGTGGAATAAAAAAGCTACTGCTGTGTTGGTAATAGCTAGCACAGATGTTGACAAGACAGGAGCTTCCTAC  
TATGGAGAACAACCTCTACACTACATTGCAACAAATGGAGAAAGTGCTGTAGTGCAATTACCAAAAAATGGCCCC  
ATTTATGATGTAGTTTGGAAATCTAGTTCTACTGAGTTTGTGCTGTATATGGTTTTATGCCTGCCAAAGCGACA  
ATTTTCAACTTGAAATGTGATCCTGTATTTGACTTTGGAACGGTCTCGTAATGCAGCCTACTATAGCCCTCAT  
GGACATATATTAGTATTAGCTGGATTTGGAAATCTGAGGGGACAAATGGAAGTGTTGGGATGTGAAAACTACAAA  
CTTATTTCTAAACCGGTGGCTTCTGATTCTACATATTTTGCTTGGTGCCCGGATGGTGAGCATATTTTAACAGCT  
ACATGTGCTCCCAGGTACGGGTTAATAATGGATACAAAATTTGGCATTATAGTGGCTCTATCTTGACACAAGTAT  
GATGTGCCATCAAATGCAGAAATTATGGCAGGTTTCTTGGCAGCCATTTTTGGATGGAATATTTCCAGCAAAAACA  
ATAACTTACCAAGCAGTTCCAAGTGAAGTACCCAATGAGGAACCTAAAGTTGCAACAGCTTATAGACCCCCAGCT  
TTAAGAAATAAACCAATCACCAATTCCAAATTGCATGAAGAGGAACCACTCAGAATATGAAACCACAATCAGGA  
AACGATAAGCCATTATCAAAAAACAGCTCTTAAAAATCAAAGGAAGCATGAAGCTAAGAAAGCTGCAAAGCAGGAA  
GCAAGAAGTGACAAGAGTCCAGATTTGGCACCTACTCCTGCCCCACAGAGCACACCACGAAACACTGTCTCTCAG  
TCAATTTCTGGGGACCTGAGATAGACAAAAAATCAAGAACCTAAAGAAGAACTGAAAGCAATCGAACAACCTG  
AAAGAACAAGCAGCAACTGGAAAACAGCTAGAAAAAATCAG

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**FIGURE 1287**

MQNWCPSWSEDETLCAENVNNEVHFFENNNFNTIANKLHLQKINDFVLSPPQPYKVAVYVPGSKGAPSFVRLYQ  
YPNFAGPHAALANKSFFKADKVTMLWNKKATAVLVIASTDVDKTGASYIGEOTLHYIATNGESAVVQLPKNGPIY  
DVVWNSSSTEFCAVYGFMPAKATIFNLKCDPVDFGTGPRNAAYYSPHGHILVLAGFGNLRGQMEVWDVKNYKLI  
SKPVASDSTYFAWCPDGEHILTATCAPRLRVNNGYKIWHYTGSILHKYDVPSNAELWQVSWQPFLLDGIFPAKTIT  
YQAVPSEVPNEEPKVATAYRPPALRNKPITNSKLHEEEPPQNMKPQSGNDKPLSKTALKNQRKHEAKKAQEAR  
SDKSPDLAPTPAPQSTPRNTVSQSIISGDPEIDKKIKNLKKKLKAIEQLKEQAATGKQLEKNQLEKIQKETALLQE  
LEDLELGI

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**FIGURE 1288A**

GGCCGTTGCTCCAGGGAGAACTGCAAATATCTTCATCCACCCCCACATTTAAAAACGCAGTTGGAGATAAATGGA  
CGCAATAACTTTGATTCAGCAGAAGAACATGGCCATGTTGGCCCAGCAAATGCAACTAGCCAATGCCATGATGCCT  
GGTGCCCCATTACAACCCGTGCCAATGTTTTAGTTGCACCAAGCTTAGCCACCAATGCATCAGCAGCCGCCTTT  
AATCCCTATCTGGGACCTGTTTCTCCAAGCCTGGTCCCGGCAGAGATCTTGCCGACTGCACCAATGTTGGTTACA  
GGGAATCCGGGTGTCCCTGTACCTGCAGCTGCTGCAGCTGCTGCACAGAAATTAATGCGAACAGACAGACTTGAG  
GTATGTCGAGAGTACCAACGTGGCAATTGCAACCGAGGAGAAAATGATTGTCGGTTTGCTCATCCTGCTGACAGC  
ACAATGATTGACACCAATGACAACACAGTCACTGTGTGATGGATTACATCAAAGGGAGATGCTCTCGGGAAAAG  
TGCAAATACTTTTCATCCCCCTGCACATTTGCAAGCCAAAGATCAAGGCTGCCCAATACCAGGTCAACCAGGCTGCA  
GCTGCACAGGCTGCAGCCACCGCAGCTGCCATGACTCAGTCGGCTGTCAAATCACTGAAGCGACCCCTCGAGGCA  
ACCTTTGACCTGGGAATTCCTCAAGCTGTACTTTCCCCCATTACCAAAGAGGCCTGCTCTTGAAAAAACCAACGGT  
GCCACCGCAGTCTTTAACTGGTATTTTCCAATACCAACAGGCTCTAGCCAACATGCAGTTACAACAGCATAACA  
GCATTTCTCCACAGTTCCCATGGTGCACGGTGTACGCCAGCCACTGTGTCCGCAGCAAACAATCTGCCACA  
AGTGTTCCCTTCGCTGCAACAGCCACAGCCAACCAGATACCATAATATCTGCCGAACATCTGACTAGCCACAAG  
TATGTTACCCAGATGTAGAATTTTCATCACTAAACAATCATGTAAAGAGGAAAGGACAGTGTGCTTGGTTAGAG  
TAAAGGACGAGGTCATTAGCCATATTGTATATATCGTCAAGCAACACACACAAAAGTTCCTCAGCCACAAGACAT  
CCACATATTGCATGTTAACCAGAAGAAAAGACAACATTTCCGGAAATCCACTGCACACTGTTGCCTATACACTT  
GTACATTTAATTGATATTTGTGCTGAGGTGATATTCCTGTCTAAAAGAACAACATTGTCTTTCTTTTCTAGCAC  
AGAGTTATGCATTCAAAGATGCATACCTAGTTAGTTTCTATATATTTCATGCCATCTTGAAAAGACAGACTATGG  
TGTAACCATGATTCTATTATGTATTGGTACGTCTGTAGACCAAGATATAATTTTTTAAAAATAAGTTTATTTCTT  
TCAAGGTTTACAAATAACAAAGGTGCACCTTGTATTTAAATTTGCCATTATAGATGAGAGCGTGCATGCACAGTC  
ATTTTTGTTTAAAGAGTAATATTTTTAATGTAATAGATTGTAAGACGTGGTGAGGGAGGGATCTGACAGAGATGAA  
TGTGCCAAGCAAACCACAACCTGTGTATATTTTAAAGCACATCATGGCTTTAAGTACCATGTTGTTAAGGATTCT  
CATGAAGTGCCATAGACTGTACATCAAATTAGAGTATTATTTCTTCAGTGTTATTGTTTTAGAGCCACATTTTG  
TTGCATATTTGCTAGTACTAATCAGTCAAAGGGCACCATTCTTTTTTTTTTTTTTTTGAACCAAAGCTGTCTCAG  
AAATGGCCAATTTAACTTTACAGTAACAATAGACAGCACAACACAAAACCTCTCTCAATACAGATAAACTCACACAT  
ACTGGAGATATATATATAATAGATATATATAAAATTATTTTAAATGCATTGTAGTGTAAATTTATGCATACTATA  
CTGTATAACATGTTATTCAAAGGGATTGCCATTTCTGAGACACAGTAACAAAAAATGAGGAAATTATTTTGCT  
TCTATTTATAGCCTCTGTCAAAGTCAAAGACTATAAATGCTTTGCAAAAATGGTTTCACGTTTGCTTAAATGC  
TTCATCACAGTCACATTCAAAATAGTACTCTAAACAAAGAAGAAAGCAGCACTGTGCATCAGATGCATGATAAAC  
CAAAATATGAAAATGGGAAATGTTTAAATTAACCTAGTAATTGGGTGGGTTAAGTACATGGGTGAATTTTATATGT  
GATTTTTGTTTTGTTTTGTTTTGTTTCAGATTAAGTCTTATAGCCTTAGAAAGCCTTTTACAAAATTAAAAAAA  
AATAGATGTGCATTGATTTTTAAGAATGGAATCATCCAAAGGAATTCCTTTTTTTGAGGTTTGGATGTTGCAGC  
TAGTAAAGGATATTTTTGCTCTGTTTCAGCAGTTCTAAAATTTGCTGAAGTAGGGGCCAGGTCACTGGTAGTTATA  
GTATGGAATGGGAGAAGTGAAAGTTCAGTTATAGAATTTCCATACTTCCAAGTTTACTGCAAGTTTTATGCTT  
GAGAGAGATGCTTTCTAATATAAGACTGATGTGTTGATTTTACTGATTGTACTGTACATCTATTAAAGCCTTAGA  
TTATTACATTACGGGTGGGAACCCATACCAATGTAATTTCAATCGTGTTAAGAAAGTAATGGTGACTTCACATGT  
TATTGTAGTTAGTTACATTATAGAATATTACTTATTTTCTTGTTAAATGTAGTTTTTCATTTCTACATTTAT  
TAGATTTTCATTTTCTATTAACAATTGAATACCATTTCAGTTTATAGACTTGTTTTATTAGATTTTACCAATGAA  
TTTTTCAAAATACAAAAAAGTAGTTTTTCTTCATAACATACTCAGTTTTGAATTACATGTAGTGTACATGA  
ATATTCGTATTGTTAACTAAATGATTTATATTTTACTGATTTAATATTACAGTGTAAGAATGTCAGTCATTGTTA  
GTTCTTGCTAGTTTTTCATTAAGAACAAGATCTTTTATATGGATATCTTATAAATATATAATCATTGCTAAG  
TAAGAAGTTAAGTTGTTGCTATCGCAACAATCCTGGCAGACAATTGAGTAATATTTTGATGATTTATTTGTTTG  
TAATTAGTTATTATAAGAAGATCTAGATCCTAGATATTAGAATAAAATTTATTTTCTACTGTATCCATTTCAAAT  
GTTAAATATTGTTTAAATTTTTGAAATCCCTGAGTATCAGGCCTTGTTATAAATAAGCTGCATAATCAATAAA  
TAGAACAAGGGACTTTTTGTTGATAATCCAAATACTCAAAGTTTACGTAATGAAAATTATAGCGTGTGTGCAAC  
TCTTGAGGGTTGATTATGCTGCAATTTAGCATGTTGGAACGTCTAGGGAGAAGGTTGACTTTTTGCACTTCTGTA  
TATAGTCAAAGAGAGAAACCTGTATAATAGTAAGATCTTATTTTGAATAAAAACGTCTATAATTACAAGGAGTT  
TTGTTAAGGCTAATACAATGACAGACTGAGCAAAATTGCTTGCAAAAGTGGCACAGAGTTAGCACTCCATACCCC



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**FIGURE 1288B**

TTCAAACATGTTGCTTTGCTTTCTTGTGGACAGCTTGTAGTTTGCCAGGATTTTTTCAGCTGGAAAGATACGCCA  
TCCTTTCAAACCCCTCATGACTGACAAAACTCCATGGGGCCAAATCTGCCTGAAGATCATTACCAAAAATAGCAG  
GTACTTCTACCATTAAGGTGAAATCATGGATCAGATATTCTTACATTTTTCAAACCTACTGCATGTTTAAACT  
TCAACAAAAAAGAGAGAAAGAACTATACTAAGAACATATATTATTCAGATCAGTTTCTGCCAATTTAGTGTT  
TATTGTTACAAAAAATCTTCAAACAAGTATTGACTTTACAAAATTTAAATCATAAACAGGCAAACCAAACA  
GCACACTGTAGCTATAGTTGTTATGTGATTGTTTTTAATTGCTGTAGGATCCTGTTCTTTCAGCAGGTGAAAA  
TAAACGCAGTTCAAATTTTCATGGTTTTAATTTTCAACTCAGAAGCACTCAAAAATGCAAAATGTGATAATGGGC  
ACTTGTTTAAAGAATTAGTGTATCCAGCCTTCACTCCAGCTGGTTAAAAATGTTGCACTTATCAGCAACCCTAC  
CACTTTCATCTGCTGAAAGGACAAATGTGCTTGGTTTTACTATTATGTAATCACAACCTACTTTCTGCTTGTAGT  
TGCTTAAATTATGTATTTTGTCTTGGGCTGCAATTTGTTTTATGCTTATTTTATTATTACTGCAGTAGTTGACT  
TTGCTGTATGAAAAATAAAGTGAAATTGCCCTAATAAACTTCTCTTTCTTAAGT

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**FIGURE 1289**

ATGTGGAGAAAGCCAGGGGACCCACAGAAGGCTGCCTGTGGCCACGTCATAGCAAAGGAACTTTATGGAGAGGAG  
CAGGAAGTCAGAGAGCCAGCTGAATTCAGAATCTGATAGGAGAGAAGATGTCAGTCCCTCTGGAAGAAGTTAGC  
AAAGTTGTGGCCTTGAATGGGAAGGGACAGAAGAGAGGTTTCAGGGTTCGAGGCTGAGGCAACAGGAACTGCCTG  
GAATGGAACCTTGCCAAGGGGGATAGGAGGTGCAGGCCGGGGCCTCTTGGGAGAAAGAGCTGCACCATCTTCCAAC  
ACCTGTGGGAATGCTGTCTTGAAAACACTGCAGCAGCCAGTCATGAGCCAAGGAAGCAGACAAGAGCAACGAACA  
CAGGCATTGTGCATACAGACCTACCCAGAGAAGCCAGTATCCATGGCTTTGGAGAGTTCAAATATTCAATTTTCC  
GTTCAAAAAAAGGCCACGCCACCGGCTAAGAGTTCCGCCAGGGGGCCAGCTCTCAGGAGGCCTCTTCGGTGCCGC  
CAGCCTCCCGAAGTCATCCAAGGTAGCAGGCAAATCCGGCAGCAGCAAAGTAGCTCGGATTTCGGCTTCGGTTTTT  
CTCCTGGCCGGCGCCACAGGCCCCCTCCTCCCGGGGCGGGCTCCTCGGCCTCCTTCTCAACCTCAGCCCCGCGCGC  
CGACCCTTCGGCACCTTCCCGCCCCGTCTCGTACTGTCGCGGTACCGCCGCGGCTCCGGCCCTGGCCCCGATG  
GCTCTGTGCAACGGAGACTCCAAGCCTTGGGCTCCGCGGCGGTTAGGCCGTTCTGGACGAACCCCTCGGAGCTG  
CACTGTCTTCCCCCTCCCCAACGCCCTGCAGGCCCGCGTGAGGGCTGGTGGCCCCAGGGTCGCGCACTCCGTT  
CTCCTCCCCGCTTCCTTCTCAGAGAGGAAAGGGTGTGTGTCCAGGTCCCGCCTCCGTCCAGCTTGCTCCCTGTC  
GAGCTTGCTGGTTTTCGGGGTAACCCGCTTCCCCGCTTTGGGGTCCCTCCCCGGGACGCGAGCCGTGCCAGCTC  
GCCCGAGGCCTGGGCAGTCCGGAGTTCCGGAGTGCTGGAAAAGTTGCCGCCTTGACGTACCCGGCGGGGAGAGCA  
CGTTTGACCGCTGCTGCTCATCTCTCCTCCAACCTCACTTTTCTTAGACCGTTCCTCTTACTTTTCGTCCCGCTTT  
GAATTGGGCACCTTCGCTTTCACCTCTGTATTAAAAATTTTCATTGGCCTGGAGTTCTTTCTGA

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**FIGURE 1290**

AGGCATAGCAAATGAATCTAAAAAGTTATATGGAGCACAGTTCCACCCTGAAGTTGGCCTTACAGAAAATGGAAA  
AGTAATACTGAAGAATTTCCTTTATGATATAGCTGGATGCAGTGGAACCTTCACCGTGCAGAACAGAGAACTTGA  
GTGTATTCGAGAGATCAAAGAGAGAGTAGGCACGTCAAAAGTTTTGGTTTTACTCAGTGGTGGAGTAGACTCAAC  
AGTTTGTACAGCTTTGCTAAATCGTGCTTTGAACCAAGAACAAGTCATTGCTGTGCACATTGATAATGGCTTTAT  
GAGAAAACGAGAAAGCCAGTCTGTTGAAGAGGCCCTCAAAAAGCTTGGAATTCAGGTCAAAGTGATAAATGCTGC  
TCATTCTTTCTACAATGGAACAACAACCTACCAATATCAGATGAAGATAGAACCCACGGAAAAAGAATTAGCAA  
AACGTTAAATATGACCACAAGTCCTGAAGAGAAAAAGAAAATCATTGGGGATACTTTTTGTTAAGATTGCCAATGA  
AGTAATTGGAGAAATGAACTTGAAACCAGAGGAGGTTTTCTTGCCCAAGGTACTTTACGGCCTGATCTAATTGA  
AAGTGCATCCCTTGTTGCAAGTGGCAAAGCTGAACTCATCAAAACCCATCACAATGACACAGAGCTCATCAGAAA  
GTTGAGAGAGGAGGAAAAAGTAATAGAACCTCTGAAAGATTTTCATAAAGATGAAGTGAGAATTTTGGGCAGAGA  
ACTTGGACTTCCAGAAGAGTTAGTTTCCAGGCATCCATTTCCAGGTCCTGGCCTGGCAATCAGAGTAATATGTGC  
TGAAGAACCTTATATTTGTAAGGACTTTCTGAAACCAACAATATTTTGAAAATAGTAGCTGATTTTCTGCAAG  
TGTTAAAAAGCCACATACCCTATTACAGAGAGTCAAAGCCTGCACAACAGAAGAGGATCAGGAGAAGCTGATGCA  
AATTACCAGTCTGCATTCACTGAATGCCTTCTTGCTGCCAATTAAAACTGTAGGTGTGCAGGGTGAAGTGTCTC  
CTACAGTTACGTGTGTGGAATCTCCAGTAAAGATGAACCTGACTGGGAATCACTTATTTTTCTGGCTAGGCTTAT  
ACCTCGCATGTGTCACAACGTTAACAGAGTTGTTTATATATTTGGCCCACCAGTTAAAGAACCTCCTACAGATGT  
TACTCCCACTTTCTTGACAACAGGGGTGCTCAGTACTTTACGCCAAGCTGATTTTGAGGCCCATACATTCTCAG  
GGAGTCTGGGTATGCTGGGAAAATCAGCCAGATGCCGGTGATTTTGACACCATTACATTTTGATCGGGACCCACT  
TCAAAAGCAGCCTTCATGCCAGAGATCTGTGGTTATTGGAACCTTTATTACTAGTGACTTCATGACTGGTATAACC  
TGCAACACCTGGCAATGAGATCCCTGTAGAGGTGGTATTAAAGATGGTCACTGAGATTAAGAAGATTCCTGGTAT  
TTCTCGAATTATGTATGACTTAACATCAAAGCCCCCAGGAATACTGAGTGGGAGTAATAAACTTC

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**FIGURE 1291**

GACCCTTTTCACAACATGGCGCCGAAAGCGAAGAAGGAAGCTCCTGCCCCCTCCTAAAGCTGAAGCCAAAGCGAAG  
GCTTTAAAGGCCAAGAAGGCAGTGTTGAAAGGTGTCCACAGCCACAAAAGAAGAAGATCCGCACGTCACCCACC  
TTCCGGCGGGCCGAAGACACTGCGACTCCGGAGACAGCCCAGATATCCTCGGAAGAGCGCTCCCAGGAGAAACAAG  
CTTGACCACTATGCTATCATCAAGTTTCCGCTGACCACTGAGTCTGCCATGAAGAAGATAGAAGACAACAACACA  
CTTGTGTTTCATTGTGGATGTTAAAGCCAACAAGCACCAGATTAAACAGGCTGTGAAGAAGCTCTATGACATTGAT  
GTGGCCAAGGTCAACATCCTGATTCCGGCCTGATGGAGAGAAGAAGGCATATGTTGACTGGCTCCTGATTACGAT  
GCTTTGGATGTTGCCAACAATAATTGGGATCATCTAAACTGAGTCCAGCTGCCTAATTCTGAATATATATATATAT  
ATATCTTTTCACCAT

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**FIGURE 1292A**

GATGAAGAGGAAGAAATCAAACAAGAAATTAACATGTTGAAGAAATATTCTCATCACCGGAATATTGCTACATAC  
TATGGTGCTTTTATCAAAAAGAACCCACCAGGCATGGATGACCAACTTTGGTTGGTGATGGAGTTTTGTGGTGCT  
GGCTCTGTACCGACCTGATCAAGAACACAAAAGGTAACACGTTGAAAGAGGAGTGGAATGCATACATCTGCAGG  
GAAATCTTACGGGGGCTGAGTCACCTGCACCAGCATAAAGTGATTTCATCGAGATATTAAAGGGCAAAATGTCTTG  
CTGACTGAAAATGCAGAAGTTAACTAGTGGACTTTGGAGTCAGTGCTCAGCTTGATCGAACAGTGGGCAGGAGG  
AATACTTTTCATTGGAACCTCCCTACTGGATGGCACCAGAAGTTATTGCCTGTGATGAAAACCCAGATGCCACATAT  
GATTTCAAGAGTGACTTGTGGTCTTTGGGTATCACCGCCATTGAAATGGCAGAAGGTGCTCCCCCTCTCTGTGAC  
ATGCACCCCATGAGAGCTCTCTTCCTCATCCCCGGAACCCAGCGCCTCGGCTGAAGTCTAAGAAGTGGTCAAAA  
AAATTCAGTCATTTATTGAGAGCTGCTTGGTAAAGAATCACAGCCAGCGACCAGCAACAGAACAATTGATGAAG  
CATCCATTTATACGAGACCAACCTAATGAGCGACAGGTCCGCATTCAACTCAAGGACCATATTGATAGAACAAG  
AAGAAGCGAGGAGAAAAAGATGAGACAGAGTATGAGTACAGTGGAAGTGAGGAAGAAGAGGAGGAGAATGACTCA  
GGAGAGCCCAGCTCCATCTGAATCTGCCAGGGGAGTCGACGCTGCGGAGGGACTTTCTGAGGCTGCAGCTGGCC  
AACAAGGAGCGTTCTGAGGCCTACGGAGGCAGCAGCTGGAGCAGCAGCAGCGGGAGAATGAGGAGCACAAGCGGC  
AGCTGCTGGCCGAGCGTCAGAAGCGCATCGAGGAGCAGAAAGAGCAGAGGCGGGCGGCTGGAGGAGCAACAAGGC  
GAGAGAAGGAGCTGCGGAAGCAGCAGGAGAGGGAGCAGCGCCGGCACTATGAGGAGCAGATGCGCCGGGAGGAGG  
AGAGGAGGCGTGCGGAGCATGAACAGGAATACATCAGGCGACAGTTAGAGGAGGAGCAGAGACAGTTAGAGATCT  
TGCAGCAGCAGCTACTGCATGAACAAGCTCTACTTCTGGAATATAAGCGCAAACAATTGGAAGAACAGAGACAAG  
CAGAAAGACTGCAGAGGCAGCTAAAGCAAGAAAGAGACTACTTAGTTTTCCCTTCAGCATCAGCGGCAGGAGCAGA  
GGCCTGTGGAGAAGAAGCCACTGTACCATTACAAAGAAGGAATGAGTCCTAGTGAGAAGCCAGCATGGGCCAAGG  
AGGTAGAAGAACGGTCAAGGCTCAACCGGCAAAGTTCCTTCCCTGCCATGCCTCACAAGGTTGCCAACAGGATATCTG  
ACCCCAACCTGCCCCCAAGGTCGGAGTCCTTCAGCATTAGTGGAGTTTACGCTGCTCGAACACCCCCCATGCTCA  
GACCAGTCGATCCCCAGATCCCACATCTGGTAGCTGTAAATCCCAGGGACCTGCCTTGACCGCCTCCAGTCAG  
TGCACGAGCAGCCACAAAGGGCCTCTCTGGGTTTCAGGAGGCTCTGAACGTGACCTCCCACCGCTGGAGATGC  
CACGCCAGAACTCAGATCCCACCTCGGAAAAATCCTCCTCTCCCCACTCGCATTGAAAAGTTTGACCGAAGCTCTT  
GGTTACGACAGGAAGAAGACATTCCACCAAAGGTGCCTCAAAGAACAACCTTCTATATCCCCAGCATTAGCCAGAA  
AGAATTCTCCTGGGAATGGTAGTGCTCTGGGACCCAGACTAGGATCTCAACCCATCAGAGCAAGCAACCTGATC  
TCCGGAGAACTGAGCCCATCTTGAGAGCCCCTTGACAGGAGACCAGCAGTGGCAGTTTCTCCAGCTCCAGCACCC  
CTAGCTCCCAGCCCAGCTCCCAAGGAGGCTCCCAGCCTGGATCACAAGCAGGATCCAGTGAACGCACCAGAGTTC  
GAGCCAACAGTAAGTCAGAAGGATCACCTGTGCTCCCCATGAGCCTGCGAAGGTGAAACCAGAAGAATCCAGGG  
ACATTACCCGGCCAGTCGACCAGCTAGCTACAAAAAAGCTATAGATGAGGATCTGACGGCATTAGCCAAAGAAC  
TAAGAGAACTCCGGATTGAAGAAACAAACCGCCCAATGAAGAAGGTGACTGATTACTCCTCCTCCAGTGAGGAGT  
CAGAAAGTAGCGAGGAAGAGGAGGAAGATGGAGAGAGCGAGACCCATGATGGGACAGTGGCTGTGACGCACATAC  
CCAGACTGATACCAACAGGAGCTCCAGGCAGCAACGAGCAGTACAATGTGGGAATGGTGGGGACGCATGGGCTGG  
AGACCTCTCATGCGGACAGTTTCAGCGGCAGTATTTCAAGAGAAGGAACCTTGATGATTAGAGAGACGTCTGGAG  
AGAAGAAGCGATCTGGCCACAGTGACAGCAATGGCTTTGCTGGCCACATCAACCTCCCTGACCTGGTGCAGCAGA  
GCCATTCTCCAGCTGGAACCCCGACTGAGGGACTGGGGCGCGTCTCAACCCATTCCCAGGAGATGGACTCTGGGA  
CTGAATATGGCATGGGGAGCAGCACCAAGCCTCCTTCACCCCTTTGTGGACCCAGAGTATACCAGACGTCTC  
CCACTGATGAAGATGAAGAGGATGAGGAATCATCAGCCGCAGCTCTGTTTACTAGCGAACTTCTTAGGCAAGAAC  
AGGCCAAACTCAATGAAGCAAGAAAGATTTCCGGTGGTAAATGTAAACCCAACCAACATTCCGGCCTCATAGCGACA  
CACCAGAAATCAGAAAATACAAGAAACGATTCAACTCAGAAATACTTTGTGCAGCTCTGTGGGGTGTAAACCTTC  
TGGTGGGGACTGAAAATGGCCTGATGCTTTTGGACCGAAGTGGGCAAGGCAAAGTCTATAATCTGATCAACCGGA  
GGCGATTTTCAGCAGATGGATGTGCTAGAGGGACTGAATGTCTTGTGACAATTCAGGAAAGAAGAATAAGCTAC  
GAGTTTACTATCTTTTCATGGTTAAGAAACAGAATACTACATAATGACCCAGAAGTAGAAAAGAAACAAGGCTGGA  
TCACTGTTGGGGACTTGGAAGGCTGTATACATTATAAAGTTGTTAAATATGAAAGGATCAAATTTTTTGGTGATTG  
CCTTAAAGAATGCTGTGGAAATATATGCTTGGGCTCCTAAACCGTATCATAAATTCATGGCATTTAAGTCTTTTG  
CAGATCTCCAGCACAAGCCTCTGCTAGTTGATCTCACGGTAGAAGAAGGTCAAAGATTAAAGGTTATTTTTGGTT  
CACACACTGGTTTCCATGTAATTGATGTTGATTTCAGGAAACTCTTATGATATCTACATACCATCTCATATTTCAGG  
GCAATATCACTCCTCATGCTATTGTCATCTTGCCTAAACAGATGGAATGGAAATGCTTGTGTTGCTATGAGGATG

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**FIGURE 1292B**

AGGGGGTGTATGTAAACACCTATGGCCGGATAACTAAGGATGTGGTGCTCCAATGGGGAGAAATGCCCACGTCTG  
TGGCCTACATTCATTCCAATCAGATAATGGGCTGGGGCGAGAAAGCTATTGAGATCCGGTCAGTGGAAACAGGAC  
ATTTGGATGGAGTATTTATGCATAAGCGAGCTCAAAGGTTAAAGTTTCTATGTGAAAGAAATGATAAGGTATTTT  
TTGCATCCGTGCGATCTGGAGGAAGTAGCCAAGTGTTTTTCATGACCCTCAACAGAAATTCATGATGAAGTGGT  
AACAGAAGAGCACTTGGCACTTATCTTCATGGCGTTATTTCTAATTTAAAAGAACATAACTCATGTGGACTTATG  
CCAGTCTAGAGGCAGAATCAGAAGGCTTGGTTGAACATATCGCTTTCCCTTTTTCTCTCCCTCCGCCCCCTCCCA  
GTACAGTCCATCTTTCAATGTTGCAGCCTGGTTGAGAAGGAGAGAAAAAGGTGGCAGGAATTTCCAGGAGATCCC  
CAAGAATGCTGCCTTGTCTGTGGACAAAGATGGACCATGTGCCCTTCGGAATTAGGGATAGAAAACAAATATTGTG  
TGCTCTTAACGATTAAGCTGTGTTATGGTGGGTTTTTCAGGTTTTTACCTTTTTTCTTTACCCCTTTACTCTGCAA  
GAATGGGGAAAGAATGCATACTGCGAAAATGAGTCTTTTAAATTCTGTCTGCCTACTAGTTTTAAGTATATGGTA  
TGTTGTAAAATTTCCAATGATGAGAGACAGCACATAAATGTACCTTATCTCCTTAGGCTGAAGGCCATAACTAC  
ATAGTGGAGTAATTTAAGAACTCTCTTGCCCTTCACCAACCCAAAAGGTTGCTTTTTGATAGCAACTGGCTAATGA  
ATTTTTAAAAGAGAAGAAAAATACTAGTTTTCCCTCTTTTGGGAAATAGATTTTAAATGGCTAAACTACTAGC  
CTTAAACTACTAGTCTAATAAAATCAACTACCACTTTTGTGAATCTGACAGGCCACATTTTTATATGGCCCTTT  
ACAGAAATGGAGTGTGTTGAACAGGATACTAACGCCATTGAGTTGAGCTGGCCTAGCGATGGAGGGACACTCTAAC  
ACAACCTTTCCCTCAGCTATTATGCAACAGATCAGGGAAGAAAGATGGGATGACAGATGGGGTCAGACAGAAAGAGC  
TTCTGGGAAACAAGCTTACATAGTCTTTTTTAAAATGCACAAAGCCTCCAGCTAAGAGGTCACCTGGTTTGGGC  
TTCATTAGGACTGAGACTTTGTTGAGTTCTTTCTGGGACTTGAGAGTGGATGATATTCAGGCTCTGAACATTCC  
CAGCGCTCTCCCGAGGGTGCCACTTTCTCAAGATGAAAAGTGTGACTGAAAAAATTAATAATAAATGTTTCTGAG  
CTGCCTGTGTTCTCCCTGTGTGGGTGAGAGAAGGGACTAGACTCCTAAGCCTGCCTCAGATACAAGAGGCATCAT  
TGGCTCCAATTTTAGAGAACTTGAAAGCAAGGCTTTGGACAAAATTTTGAACCCCTAATCACTTTACCTTCTCTCC  
AAATTACCCAACATACGGTAACAACATTTGTGCAGAAGTATGTATGATTTAGTTTCAGGTTGACTTGTGTCTCT  
ATAAATCTTACTCAATGATTTGAACCTT

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**FIGURE 1293**

MPHKVANRISDPNLP PRSEFSISGVQPARTPPMLRPVDPQIPHLVAVKSQGPALTASQSVHEQPTKGLSGFQEA  
LNVTS HRVEMPRQNSDPTSENPLPTRIEKFDRSSWLROEEDIPPKVPQRTTSPALARKNSPGNGSALGPRLG  
SQPIRASNPDLRRTEPILESP LQRTSSGSSSSSSSTPSSQPSQGGSQPGSQAGSSERTRVRANSKSEGSFVLPHE  
PAKVKPEESRDITRPSRPASYKKAIDEDLTALAKELRELRIEETNRPMKKVTDYSSSSEESSEEEEEEDGESET  
HDGTVAVSDIPRLIPTGAPGSNEQYNVGMVGTHGLETSHADSFSGSISREGTLMIRETSGEKKRSGHSDSNGFAG  
HINLPDLVQQSHSPAGTPTEGLGRVSTHSQEMDSGTEYGMGSSTKASFTPFVDP RVYQTSPTDEDEEDEESSAAA  
LFTSELLRQEQAKLNEARKISVVNVNPTNIRPHSDTPEIRKYKKRFNSEILCAALWGVNLLVGTENGLMLLDRSG  
QGKVYNLINRRRFQQMDVLEGLNVLVLTISGKKNKLRVYYLSWLRNRILHNDPEVEKKQGWITVGDLEGCIHYKV  
KYERIKFLVIALKNAVEIYAWAPKPYHKFMAFKSFADLQHKPLLVDLTVEEGQRLKVIFGSHTGFHVIDVDSGNS  
YDIYIPSHIQGNITPHAIVILPKTDGMEMLVCYEDEGVYVNTYGRITKDVLQWGEMPTSVAYIHSNQIMGWGEK  
AIEIRSVETGHLDGVMHKRAQRLKFLCERNDKVFFASVRSGGSSQVFFMTLNRNSMMNW

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**FIGURE 1294**

GGGGGCAAAAAAAGAAGCAAGTTCTGAAGTTCACCTTGATTGCACCCACCCTGTAGAATCATGGATGCTGCCA  
ATTTTGAGCAGTTTTTGCAAGAAAGGATCAAAGTGAACGGAAGCTGGGAACCTTGGTGGAGGGGTGGTGACCA  
TCGAAAGGAGCAAGAGCAAGATCACCGTGACATCCGAGGTGCCTTTCTCCAAAAGGTATTTGAAATATCTCACCA  
AAAAATATTTGAAGAAGAATAATCTACGTGACTGGTTGCGCGTAGTTGCTAACAGCAAAGAGAGTTACGAATTAC  
GTTACTTCCAGATTAACCAGGACGAAGAAGAGGAGGAAGACGAGGATTAAATTTCAATTTATCTGGAAAATTTTGT  
ATGAGTTCTTGAATAAACTTGGGAACCAAAATGGTGGTTTATCCTTGTATCTCTGCAGTGTGGATTGAACAGAA  
AATTGGAAATCATAGTCAAAGGGCTTCCTTGGTTCGCCACTCATTTATTTGTAACCTTGACTTCT



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**FIGURE 1295**

ATGAAGAGAGTGTGTCAGCAGAGGTCGCCTCCAGAGGAGGTGCTGTGGAGACTGAGCGCATAGCACCCCTTAAAATCC  
TGGGACCAGGGCTTCTCCACGGGCTTGCTGAAGAAGGGAGAAAAAGAACAGCAAGAAGCGATTGAACACATTGAT  
GAAGTACAAAATGAAACAGACAGACTTAATGAACAAGCCAGTCCCCTTACAAAGAAACAGACAGATGATTTAGGT  
GATAATGACGGTGCTGAAGATGAAGATATTCGGGACAGTGGGGGTCCCAAACCAGTGATGGTGTATATCCATGGT  
GGCTCATATATGGAAGGTACTGGAAATTTATATGATGGAAGTGTCTTGGCAAGTTATGGCAATGTGATCGTCATC  
ACAGTCAACTATCGACTTGGAGTACTCGCTCTACATCCGAGTTATGATTGAGGAGCCACTGGGCAGGAAAATGTG  
AGGACACAGAGGAAGCTGACTGAAGCAGGTAGACGAGAAGAGGAAACGGGTGTGCGACGGCGGGGTGCGCTGCC  
CGTCTGTCCGTGCGCTTCTCCAGCGGTAAAAGGAGAGCTGATGGAAGTGTGAATCAAATCGAAGGTGAAGCCACC  
CCAGTTAACCTCACAGAGCCTGCCAAGCTGGAAGTTAAGTTTTCTGGTCACATAATTATCTGTCAAACACTTAC  
TACATGTCACGCACTAAGGTTGCCATGATGAGCCGGACAGAGCTGGCCTTGGTACTTATGGAGCTCATTCCCAGT  
GTGGATACTGACACGTGA

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**FIGURE 1296**

TATTTTGTGAGATGTGTTGAACCTCGATTAAAGATTGCATTATGACATTCTTGAAGACCGAGTTCCATCAGGACTT  
ATTGTTGACTACCACAATCTGTTGTCTCAATGTGAGGAGAGTTACAGGAAATTTTTAAATCTGAGAAGCAGTTTG  
TCAAATTGTAACCTGATTCCGAGCAGGAAAATATCTCCATGGTGGAAGGGTTAAAATTGTATTCCGAGATGGAA  
CAGTTGAAACAAAAGCTGAAACTCATTGAGAATCCTTTGTTGAGGTATGTGTTTGGTTATCAGAAGAATTCTAAC  
ATCCAAGCAAAGGGTGTCCGTTCCAGCGGTGAGAAGATCACTCATGTGGTCTCCTCCACCATGATGGCTGGTCTC  
CTGCGGTCCCTGCTTACGGACAGGCTTTGCCAGGAGCCTGGTGAGGAAGAAAGAGAAATTCAGTTCCATAGTGAT  
CCATTGTCTGCTATAAATGCCTGCTTCGAAGGTGACACTGTTATTGTTTGTCTGGCCATTATGTGGTACATGGC  
ACTTTCTCCATTGCTGACTCCATTGAGTTGGAAGGATATGGCCTACCAGATGACATTGTGATAGAAAAGAGGGGC  
AAAGCGACACTTTTGTGGACTGCACTGGTGCTGATATTAATCTCAGGCATAAAATTTGTTGAGCATGATGCT  
GTAGAGGGAATCTTAATTGTTACCGTGGAAGACTACGCTGGAAGAACTGTGTGCTGCAGTGTGAGACGACCGGA  
GTCACAGTGCGGACATCAGCAGAGTTCTAATGAAGAACTCGGATTTATATGGCGCCAAGGGTGTGGTATAGAA  
ATCTACCCTGGGAGTCAGTGACCCCTGAGTGACAATGGGATCCATCACTGCAAGGAAGGGATCCTCATTAAAGGAC  
TTCTTAGATGAACATTATGACATTCCCAAGATATCCATGGTGAATAATATAATACATAATAATGAAGGTTATGGT  
GTTGTCTTGGTGAAACCTACAATCTTCTCTGACCTGCAAGAAAATGCTGAAGATGGAACTGAAGAAAATAAAGCG  
CTTAAAATTGAGACAAGTGGAGAGCCAGATGTGGCTGAAAGAGTGGATCTAGAAGAGCTGATTGAGTGTGCAACT  
GGTAAAATGGAGCTTTGTGCAAGAACTGACCCCTCTGAGCAAGTCGAGGGGAAATGTGAAATTGTAAATGAACATA  
ATTGCTGCCTCCACACAGAAAGGCCAGATAAAGAAGAAAAGGTTGAGTGAAGTGGGGATCACGCAAGCTGATGAC  
AACTTAATGTACAGGAGATGTTTGTGGGATTGTGGGGAACAGTTCAAGTGGAAATGGGAAAGGTAGTTTTTGGC  
ACATTTCTTTTCTGACTACAGTGATGTAAGTAGATAGCAAAATACTGGATTTTGCACATGCTGCCCTAAGAATCA  
CTGCTGCCATTGTAGTTTGTCTGATTGTCTGATTTTATATTTGATTATTTGGGCTTGAGTGAAAGGTAGATTTA  
TTTCCATTTGCAGGTGTTGCACATAAAACACTCCCTCTTTATAAGAAAAATCATAAATGCATATAAAATAGAAAA  
TATTTGGAGATTGCTTATCTGAAAGTCTTGCTTTCTTATACACATGGTTCTCTCATATTAAGCCTGGTAGTAAT  
TTTTAGTGTAATTACCTTTAGCACTTCAAAGACGAGGAAGTAAGGAAGGGAAATGCAAGACTAGTGCATAAAAAATG  
CAATAGGTGTATATGTACAGCATTCTTCTTAGAGTTGCCTTTTCATCCCAATTACAGTGAGTCTGATTTCCATC  
CTGTATTTGCATAATACTTGTCTTAAAATAAAAGCTTTTATGATTGGGAATTTATCTGCCTAATCAGACTTATTA  
TTGAGACGTCAATGGGACGCATTTTCTGTTGAGCTATGCAGTCGTCAAACAGCGATAGACAGCATAGGAGGTT  
TGAAGCAGAAATGAAATGTGTTATTTCAGAGCCAATGTTGTACATAGAGCATTTTCACTATTGCTGAATGGGAATG  
ATTAAAAACAAGGTATTTTTCGGGCCAGGCGGTGGCTCACGCTTGTAATCGCAGCACTTTGGGAGGCTGAGGCAG  
GAGGATCACTTGAGCCCAGGAGTTCAAGACTAGCCTAGGCAACATAGTGAGACCCTGTCTCTACTAAAAATAAAT  
TTAAAAAAATTAGCTGAGTGTGGTGGTGCATGCATGTAGTTCCAGCTACTCAGGAGGCTGAGGCTAGAGGATCC  
TTGAGCCCAGGAGGTTGAGGCTGCAGTGAGGTGTGATTGCGCCACTGCATTCCAGCTTGGGCGACAGAGCGGAGAC  
CCAGTCTCAAAAAAAAAAAAAAAGTATTTTCTCTTACCGTTACAGTATTCTGATTATATTACTGACACAGTCAAA  
ATGATTAACTGTACAACCTGTATCTGCTGGGTGTTCTTGTTATCATATTGTAAACAGCTTTAAAAATATTTATA  
TTTTAAAACTGTATGTGACATTAATATGCCTAATGATTAAATTTATAGTGATGAAATAACAAAA

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**FIGURE 1297**

GTAGCCATGGCGGCCATGAGTTTGTTCGGCGGGTTTCGGTTACTGCGGTGGCAGCTCTGTCTGGCCGGCCCCCTT  
GGCACTCGCCTCGGATTGTTTTGGGGGCTTCCTCACTCGTGGCTTTCCGAAGGCTGCTGCTCCTGTTGACACAGTGGA  
GACCATGGGAAAAGACTATTTGTCATCAGACCTTCTAGATTCTATGACAGGCGTTTTTTGAAGTTATTGAGATTC  
TACATTGCATTGACTGGGATTCCAGTAGCAATTTTCATAACTCTGGTGAATGTATTCAATTGGTCAAGCTGAACTA  
GCAGAAATTCAGAAGGCTATGTCCCAGAACACTGGGAATATTATAAGCATCCCATATCAAGATGGATTGCCCGT  
AATTTCTATGATAGTCCTGAAAAGATATATGAAAGAACAATGGCCGTCCTTCAGATTGAAGCTGAAAAGGCTGAA  
TTACGGGTAAAGGAGCTGGAAGTGCAGAAATGATGCATGTGAGAGGAGATGGACCCTGGTATTACTATGAGACA  
ATTGACAAGGAACCTTATTGATCATTCTCCGAAAGCAACTCCTGACAATTAAGCCTTTTTTTCTCCAAATACAAAG  
TATATTCTCTTTATTGAAAATAAATTAATAAATATATTCTGTATTTTTTGCTCTCCGTGAAAAACAAAAGAGCCT  
CTGACATTACTGTCTCTCAGTGTTGGTTCAGATTGAGGCTTTTGTTGAGGAGTTTGGCTTCCAGTCCCCAAAGA  
AGGTTTAAAATGTACTAATAAAAACTGGAGAAATAGGAATTTGTGAACCCCTAAAATTGTAGCAACTTTGAAAGG  
TTAGTGTTTTATTACCTGACAAATGGAAGTTATAGAAGTCTAATAATGTTAAGCACCAGTAATTATAGTATTTT  
GTACAAATGCCTGTACTGTAGATGTCTGTATTATTGAGGGGCAACTCAGGATTTTAAGTTCCATAAAGTATTGAA  
CCAACCTCTAAAATGTTAACTCCTTAATAAACAGATTCTCAGTAAACAAATTTTAAAGTTAAAAAAAAAAAAAAAAA

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**FIGURE 1298**

MAAMSLRRVSVTAVAALSGRPLGTRLGFGGFLTRGFPKAAPVRHSGDHGKRLFVIRPSRFYDRRFLKLLRFYI  
ALTGIPVAIFITLVNVFIGQAELAEIPEGYVPEHWEYYKHPISRWIARNFYDSPEKIYERTMAVLQIEAEKAELR  
VKELEVRKLMHVRGDGPWYYYETIDKELIDHSPKATPDN

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**FIGURE 1299**

GTTTTGCCAGTTATGCGAAAAACATGGCTGCGGCCGGTTTGGCCCTTCTTTGTAGGAGAGTTTCATCCGCCCTGAA  
ATCTTCCCGATCGTTAATAACTCCTCAGGTCCCTGCCTGCACAGGGTTTTTCTTAGTTTGTTCCTAAGAGTAC  
ACCAAATGTGACATCCTTTACCAATATAGATTACTTCATACCACATTGTCAAGGAAAGGACTAGAAGAATTTTT  
TGATGACCCAAAAAACTGGGGGCAAGAAAAAGTAAAATCTGGAGCAGCATGGACCTGTCAGCAACTAAGGAACAA  
AAGTAATGAAGATTTACACAACTTTGGTATGTCTTACTGAAAGAAAGAAACATGCTTCTAACCTTAGAGCAGGA  
GGCCAAGCGGCAGAGATTGCCAATGCCAAGTCCAGAGCGGTTAGATAAGGTAGTAGATTCCATGGATGCATTAGA  
TAAAGTTGTCCAGGAAAGAGAAGATGCCCTAAGGCTTCTTCAGACTGGTCAAGAAAGAGCTAGACCTGGTGCTTG  
GAGAAGAGACATCTTTGGAAGAATCATCTGGCACAAGTTCAAGCAGTGGGTATACCTTGGCACCTAAATAAAAG  
ATACAATAGGAAACGATTCTTTGCCTTGCCTTATGTGGACCATTTTCTCAGACTGGAACGTGAGAAACGAGCCCG  
CATCAAAGCACGGAAGGAAAATTTAGAGAGAAAAGCAAAATTTCTTTAAAAAAGTTTCCACATCTTGCTGA  
AGCCCAAAAGTCAAGTCTTGTCTAAGATGTCTGAACTATTAAATTTACCATTTTGTCTTTCTTGAATAGTCTGTG  
TACAGGAGTAAATATGTTAAGTGGTTTATAAAGAAATTCGTCTTTTAGTCAAGTGACTTTACTAATCAGTTGTTT  
TAAGTGTGAATATGGCATGCTAATTAGCTAATTTGGTAGAAGCTAATTTGCTTCTAAAAATCAGGTATAAAGTTC  
AGATGAGATTCCCCTTTATAAATCTGACATTTAAGCAGGCTTTAAATGTACCTGCTACCTTAGAGTGTGAAG  
GTGATGGTAACTGCCACAGCAAAGGCAATACCGTAGTTTTTGAATTTGAATAATAGTTTTACCTCTGTGTGAAT  
AGGCTATGAAGAGGATGTGGGTATTGCTGTATAAACGGAGGACTTTGATTCAAATAATGAGAAATACATTTA  
GTCCTTAAAGTAGTAATCACAGTGCACAACAGTCCAAAAATATTTCTGGAATGGCTAATTTTTATTAAATCTG  
TAAGCCTAAGGTAAAAAGCATAGGCAGTAACTTTTACTAGTCAATAAAAAGCAGTTCTACCAATCCACTGGTAAT  
TAATACACTAAACAGAGTTGGAAAGCATTTTACTGAAAGCAAAATATTTAGAGAAAATAGACATTTATACAAAAT  
TATAAAATGCTTGTATAAGAATAAGTGCATTTCAAGGAAAGCACAACTTAATTTATAGAGCCAGTTAAAGCTT  
TAAAAATTTAAGTGGAAATTGAAATATGCAAAATGTATAAACATTCTACAAAAGATGGTCATTCTTTCTCTGA  
GTATACTAAAGCTATGAAACGTAAGGTGACAAAAGGAAGGTAGAAGCTTGGGAACCTTTTCTCAAGGGCATTTTC  
TTTCTACACACTGCTTCCCTCCTTCTTTCATATTCTTGCTTGGAAATCCACATCCCAACACTTGTGGTGACAACAT  
GACTGACTCCTAACATTGTGTTTTCTGATAACCCCTTTACATTGGAAGGGTCAAATAATCCTTCTGGAATCTTTA  
GCCGCTCTGCACCAAAATCACAATTGTAGCCATTGGGGAATTCATAATGAACAGTTGGCATCTGTGCAGCCACTT  
GTTTCATCATAAGTTGAATCTGACACTTGAAGTACCGAAGCTTGAAAATCCTGGATAACACAATTACACATATAAT  
TGTGCCAAGACCTCGTAACCTGAGGCAACTTCTCTTTTCTTTTCCAGTTTGTGAGATCCTTCACGAACAGCTT  
CTTTTGATGCAATCATATATGGAGGAACCAATTCAATATTCATTTCTTGGAAAGAGTTCTCTGCACTGCATAGTAA  
TAAAGTCTCCAGCAAGAGGGGATTTACAATGCCTTGTTGAAGGACATAGCCATCGTGGACTGGAATTGCAGTGG  
TATGAGTGGCTCCACTGTCCAAAATCAGCCCAGTAGAACGACCATTAGCAAATGCTGTCAAACTGCAGTTTTGC  
AAAGGAAGAAGGCAGGGATGTTGTAGTGTTCAAACATTAACCTCTGTCAAGTTTCTCTCTCTTTGCTCTAGTATTCC  
ACGGTGCCCTCTGACATGAGAACAGGATGGAGACTGGCTTCTGATTTGACATGCATTTTGTAGGTATGATCCAAAA  
TAGCTTGGAACATATCCAGTCTTCAACCATCCATTTTTTAGAGGTGAAATGGCCTCCATATTCTCCCTCGGAA  
CACGCAGAGCATTAGTATCTATGTAGTAGGTGGGACCGCCTTGTTGCTTTATCGCCATCTATTTCCATTAAATG  
TGCTTCCGTCTCTCTTTCTACCACCATAACCAATAGCTGTAGGAAAAATCCACCTTGGGGCAGTCTCACCAGCAT  
AACCAGCTCTCACAGTATAGGATCCAATGTCAAAAACAAGGGCTCCAACCTCACCTCCCCGTACACGCCGCCGC  
TCATGGCTGCTGCCGCGCGACTCCTACCCTAAGGGCTAACTGGCGAAGTGACTGCAGTGGCCGCGACTGCGAGT  
CTCGAGGAGCGATAGCCCCTGACTCCCTTAACCTTCCACCGCCACCCACCTCAGGCAACAAAGCGG

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**FIGURE 1300**

CCGCTTTGTTGCCTGAGGTGGGTGGCGGTGGAAGTTAAGGGAGTCAGGGGCTATCGCTCCTCGAGACTCGCAGTC  
GCGGCCACTGCAGTCACTTCGCCAGTTAGCCCTTAGGGTAGGAGTCGCGCCGGCAGCAGCCATGAGCGGCGGCGT  
GTACGGGGGAGATGAAGTTGGAGCCCTTGTTTTTGACATTGGATCCTATACTGTGAGAGCTGGTTATGCTGGTGA  
GGACTGCCCCAAGGTGGATTTTCCTACAGCTATTGGTATGGTGGTAGAAAGAGATGACGGAAGCACATTAATGGA  
AATAGATGGCGATAAAGGCAAACAAGGCGGTCCACCTACTACATAGATACTAATGCTCTGCGTGTTCCGAGGGA  
GAATATGGAGGCCATTTACCTCTAAAAAATGGGATGGTTGAAGACTGGGATAGTTTCCAAGCTATTTTGGATCA  
TACCTACAAAATGCATGTCAAATCAGAAGCCAGTCTCCATCCTGTTCTCATGTCAGAGGCACCGTGGAATACTAG  
AGCAAAGAGAGAGAAACTGACAGAGTTAATGTTTGAACACTACAACATCCCTGCCTTCTTCCCTTTGCAAACTGC  
AGTTTTGACAGCATTTGCTAATGGTCGTTCTACTGGGCTGATTTTGGACAGTGGAGCCACTCATACCACTGCAAT  
TCCAGTCCACGATGGCTATGTCTTCAACAAGGCATTGTGAAATCCCCTCTTGCTGGAGACTTTATTACTATGCA  
GTGCAGAGAACTCTTCCAAGAAATGAATATTGAATTGGTTCCTCCATATATGATTGCATCAAAAAGAGCTGTTTCG  
TGAAGGATCTCCAGCAAACCTGGAAAAGAAAAGAGAAGTTGCCTCAGGTTACGAGGTCTTGGCACAAATTATATGTG  
TAATTGTGTTATCCAGGATTTTCAAGCTTCGGTACTTCAAGTGTGAGATTCAACTTATGATGAACAAGTGGCTGC  
ACAGATGCCAACTGTTTATTATGAATTCCCCAATGGCTACAATTGTGATTTTGGTGCAGAGCGGCTAAAGATTCC  
AGAAGGATTATTTGACCCTTCCAATGTAAAGGGGTATCAGGAAACACAATGTTAGGAGTCAGTCATGTTGTAC  
CACAAGTGTGGGATGTGTGATATTGACATCAGACCAGGTCTCTATGGCAGTGTAATAGTGGCAGGAGGAAACAC  
ACTAATACAGAGTTTTACTGACAGGTGAATAGAGAGCTGTCTCAGAAAACCTCCTCCAAGTATGCGGTTGAAATT  
GATTGCAAATAATACAACAGTGGAACGGAGGTTTAGCTCATGGATTGGCGGCTCCATTCTAGCCTCTTTGGGTAC  
CTTTCAACAGATGTGGATTTCCAAGCAAGATATGAAGAAGGAGGGAAGCAGTGTGTAGAAAGAAAATGCCCTTG  
AGAAAGAGTTCCCAAGCTTCTACCTTCCTTTTGTACCTTACGTTTCATAGCTTTAGTATACTCAGGAAAAGAAT  
GACCATCTTTTGTAGAATGTTTATACATTTTTGCATATTTCAATTTCCACTTAAATTTTTTAAAGCTTTAACTGG  
CTCTATAAATTAAGTTTGTGCTTTTCCTTGAAATGCACTTATTCTTATTACAAGCATTTTATAATTTGTATAAAT  
GTCTATTTTCTCTAAATATTTTGTCTTTCAGTAAATGCTTTCCAACCTCTGTTTAGTGTATTAATTACCAGTGGAT  
TGGTAGAACTGCTTTTATTGACTAGTAAAGTTACTGCCTATGCTTTTTACCTTAGGCTTACAGAATTAAATAA  
AAATTAGCCATTCCAGAAATAT

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**FIGURE 1301**

MSGGVYGGDEVGALVFDIGSYTVRAGYAGEDCPKVDFPTAIGMVVERDDGSTLMEIDGDKGKQGGPTYIIDTNAL  
RVPRENMEAISPLKNGMVEDWDSFQAILDHTYKMHVKSEASLHPVLMSEAPWNTRAKREKLTLMFEHYNIPAFF  
LCKTAVLTAFANGRSTGLILDGATHHTAIPVHDGYVLQQGIVKSPLAGDFITMQCRELFQEMNIELVPPYMIAS  
KEAVREGSPANWKRKEKLPQVTRSWHNYMCNCVIQDFQASVLQVSDSTYDEQVAAQMPTVHYEFPNGYNCDFGAE  
RLKIPEGLFDP SNVKGLSGNTMLGVSHVTTSVGMCIDIDIRPGLYGSVIVAGGNTLIQSFTDRLNRELSQKTPPS  
MRLKLIANNITVERREFSSWIGGSILASLGTFOQMWISKQEYEEGGKQCVERKCP

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**FIGURE 1302A**

AGAGTACGTGTTTACAGATAAACTGGTACACTGACAGAAAATGAGATGCAGTTTCGGGAATGTTCAATTAATGG  
CATGAAATACCAAGAAATTAATGGTAGACTTGTACCCGAAGGACCAACACCAGACTCTTCAGAAGGAACTTATC  
TTATCTTAGTAGTTTATCCCATCTTAACAACCTTATCCCATCTTACAACCAGTTCCTCTTTCAGAACCAGTCTCTGA  
AAATGAACTGAACTAATTAAAGAACATGATCTCTTCTTTAAAGCAGTCAGTCTCTGTACACTGTACAGATTAG  
CAATGTTCAAACCTGACTGCACTGGTGATGGTCCCTGGCAATCCAACCTGGCACCATCGCAGTTGGAGTACTATGC  
ATCTTCACCAGATGAAAAGGCTCTAGTAGAAGCTGCTGCAAGGATTGGTATTGTGTTTATTGGCAATTCTGAAGA  
AACTATGGAGGTTAAACTCTTGGAACCTGGAACGGTACAACTGCTTCATATTCTGGAATTTGATTTCAGATCG  
TAGGAGAATGAGTGTAATTGTTTCAGGCACCTTCAGGTGAGAAGTTATTATTTGCTAAAGGAGCTGAGTCATCAAT  
TCTCCCTAAATGTATAGGTGGAGAAATAGAAAAACCAGAATTCATGTAGATGAATTTGCTTTGAAAGGGCTAAG  
AACTCTGTGTATAGCATATAGAAAATTTACATCAAAAGAGTATGAGGAAATAGATAAACGCATATTTGAAGCCAG  
GACTGCCTTGCAGCAGCGGGAAGAGAAATTGGCAGCTGTTTTCCAGTTTCATAGAGAAAGACCTGATATTACTTGG  
AGCCACAGCAGTAGAAGACAGACTACAAGATAAAGTTCGAGAACTATTGAAGCATTGAGAATGGCTGGTATCAA  
AGTATGGGTACTTACTGGGGATAAACATGAAACAGCTGTTAGTGTGAGTTTATCATGTGGCCATTTTCATAGAAC  
CATGAACATCCTTGAACCTATAAACAGAAATCAGACAGCGAGTGTGCTGAACAATTGAGGCAGCTTGCCAGAAG  
AATTACAGAGGATCATGTGATTTCAGCATGGGCTGGTAGTGGATGGGACCAGCCTATCTCTTGCCTCAGGGAGCA  
TGAAAACTATTTATGGAAGTTTGCAGAAATTGTTTCAGCTGTATTATGCTGTGCTATGGCTCCACTGCAGAAAGC  
AAAAGTAATAAGACTAATAAAAAATATCACCTGAGAAACCTATAACATTGGCTGTTGGTGATGGTGCTAATGACGT  
AAGCATGATACAAGAAGCCCATGTTGGCATAGGAATCATGGGTAAAGAAGGAAGACAGGCTGCAAGAAACAGTGA  
CTATGCAATAGCCAGATTTAAGTTCCCTCTCCAAATTGCTTTTTGTTTCATGGTCATTTTTATTATATTAGAATAGC  
TACCCTTGTACAGTATTTTTTTTTATAAGAATGTGTGCTTTATCACACCCAGTTTTTATATCAGTTCTACTGTTT  
GTTTTCTCAGCAAACATTGTATGACAGCGTGTACCTGACTTTATAACAATATTTGTTTTACTTCCCTACCTATTCT  
GATATATAGTCTTTTTGGAACAGCATGTAGACCCCTCATGTGTTACAAAATAAGCCACCCTTTATCGAGACATTAG  
TAAAAACCGCTCTTAAGTATTAAACATTTCTTTATTGGACCATCCTGGGCTTCAGTCATGCCTTTATTTTCTT  
TTTTGGATCCTATTTACTAATAGGGAAAGATACATCTCTGCTTGGAATGGCCAGATGTTTGGAACCTGGACATT  
TGGCACTTTGGTCTTCACAGTCATGGTTATTACAGTCACAGTAAAGATGGCTCTGGAACTCATTTTTTGGACTTG  
GATCAACCATCTCGTTACCTGGGGATCTATTATATTTTATTTTGTATTTTCTTGTGTTTATGGAGGGATTCTCTG  
GCCATTTTTGGGCTCCCAGAATATGTATTTTGTGTTTATTCAGCTCCTGTCAAGTGGTTCTGCTTGGTTTGCCAT  
AATCCTCATGGTTGTTACATGTCTATTTCTTGATATCATAAAGAAGGTCTTTGACCGACACCTCCACCCTACAAG  
TACTGAAAAGGCACAGCTTACTGAAACAAATGCAGGTATCAAGTGCTTGGACTCCATGTGCTGTTTCCCGGAAGG  
AGAAGCAGCGTGTGCATCTGTTGGAAGAATGCTGGAACGAGTTATAGGAAGATGTAGTCCAACCCACATCAGCAG  
ATCATGGAGTGCATCGGATCCTTTCTATACCAACGACAGGAGCATCTTGACTCTCTCCACAATGGACTCATCTAC  
TTGTATAAGGGGAGTAGTACTTTGTGGGAGCCAGTTACCTCCTTTCTTAAATTCAGTGTGATCACCCTGTTA  
ATGGCCACACTAGCTCTGAAATTAATTTCCAAAATCTTTGTAGTAGTTTCATACCCACTCAGAGTTATAATGGCAA  
ACAAACAGAAAGCATTAGTACAAGCCCCTCCCAACACCCTTAATTTGAATCTGAACATGTTAAAATTTGAGAATA  
AAGAGACATTTTTCATCTCTTTGTCTGGTTTGTCCCTTGTGCTTATGGGACTCCTAATGGCATTTCAGTCTGTTG  
CTGAGGCCATTATATTTTAAATATAAATGTAGAAAAAGAGAGAAATCTTAGTAAAGAGTATTTTTTAGTATTAGC  
TTGATTATTGACTCTTCTATTTAAATCTGCTTCTGTAAATTATGCTGAAAGTTTGCCTTGAGAACTCTATTTTTT  
TATTAGAGTTATATTTAAAGCTTTTCATGGGAAAAGTTAATGTGAATACTGAGGAATTTTGGTCCCTCAGTGACC  
TGTGTTGTTAATTCATTAATGCATTCTGAGTTTCACAGAGCAAATTAGGAGAATCATTCCAACCATTATTTACTG  
CAGTATGGGGAGTAAATTTATACCAATTCCTCTAACTGTACTGTAAACACAGCCTGTAAAGTTAGCCATATAAATG  
CAAGGGTATATCATATATACAAATCAGGAATCAGGTCCGTTACCCGAACCTCAAAATGATGTTTACTAATATTTT  
TGTGACAGAGTATAAAGACCCTATAGTGGGTAAATTAGATACTATTAGCATATTATTAATTTAATGTCTTTATCA  
TTGGATCTTTTGCATGCTTTAATCTGGTTAACATATTTAAATTTGCTTTTTTCTCTTTACCTGAAGGCTCTGTG  
TATAGTATTTTCATGACATCGTTGTACAGTTTAACTATATCAATAAAAAGTTTGGACAGTATTTAAATATTGCAA  
TATGTTTAAATTATACAAATCAGAATAGTATGGGTAAATTAAATGAATACAAAAAGAAGAGCCTCTTTCTGCAGCCG  
ACTTAGACATGCTCTTCCCTTTCTATAAGCTAGATTTTAGAATAAAGGGTTTCAGTTAATAATCTTATTTTCAGG  
TTATGTCTACTAACTTATAGCAAACCTACCACAATACAGTGAGTTCTGCCAGTGTCCAGTACAAGGCATATTTCA  
GGTGTGGCTGTGGAATGTAAAAATGCTCAACTTGTATCAGGTAATGTTAGCAATAAATTAATGCTAAGAATGAT